

Construction of various buildings for DIET Bargarh, Odisha

ABSTRACT OF COST

Sl.No.	Description	Unit	SOR Amount (in ₹)	Non-SOR Amount (in ₹)	Total Amount (in ₹)
1	Academic Building	₹	6,01,62,326.88	42,22,402.91	₹6,43,84,729.79
2	02 nos. of 50 bedded Hostels of Boys & Girls Students	₹	2,82,94,384.79	30,25,936.44	₹3,13,20,321.24
3	04 nos of Single Staff Quarter	₹	98,79,215.01	12,86,886.20	₹1,11,66,101.21
4	04 nos of Family Quarter for staff	₹	1,20,38,726.67	14,67,984.67	₹1,35,06,711.34
TOTAL					₹12,03,77,863.58

Academic Building							
Bill of Quantities							
Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	CIVIL WORK						
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush,shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
	Ground Floor	Cum	333.920	359.782		1,20,138.33	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.						
	Ground Floor	Cum	222.613	197.916		44,058.74	
3	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) over 100mm bed of dry brick ballast 40 mm nominal size well rammed, consolidated and grouted and fine sand and finishing the top smooth in proper slop including all complete						
	Ground Floor	Sqm	45.520	816.310		37,158.42	
4	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-charge.						
	Ground Floor	Cum	240.748	835.546		2,01,155.74	
5	Pre-Construction Anti-termite treatment to your site with Imidachloprid 30.5 SC or chloropyrifos 20% EC as per IS 6313 Part-III (2013) revision including all materials and Labour cost etc.						
	Ground Floor	Sqm	636.254	123.310		78,456.53	
6	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring, shuttering etc. complete all depth and height.						
	Ground Floor	Cum	82.746	6763.076		5,59,618.86	
7	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	18.529	6643.423		1,23,092.79	
8	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super stracture including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	182.709	6688.653		12,22,077.10	
	First Floor	Cum	173.829	7129.206		12,39,262.75	
	Second Floor	Cum	217.036	7642.624		16,58,726.45	
	Third Floor	Cum	148.733	8233.096		12,24,536.67	
	Terrace Floor	Cum	26.931	8912.186		2,40,010.74	
9	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:4) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super stracture including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	10.685	6961.626		74,383.58	
	First Floor	Cum	3.713	7402.194		27,480.64	
	Second Floor	Cum	4.950	7915.663		39,182.53	
	Third Floor	Cum	3.713	8506.152		31,579.09	
10	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 25 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.						
	Ground Floor						
i	Footing	Cum	55.620	8073.571		4,49,052.00	
ii	Plinth Beam	Cum	31.059	9100.578		2,82,654.86	
iii	Column						
	Ground Floor	Cum	27.373	19003.810		5,20,195.10	
	First Floor	Cum	19.481	21399.574		4,16,874.40	
	Second Floor	Cum	17.445	24267.166		4,23,333.43	
	Third Floor	Cum	18.387	27700.549		5,09,330.00	
	Terrace Floor	Cum	15.491	27700.549		4,29,116.14	
iv	Lintel						
	Ground Floor	Cum	8.653	17104.671		1,48,010.14	
	First Floor	Cum	3.627	19124.390		69,364.16	
	Second Floor	Cum	3.016	21540.841		64,969.87	
	Third Floor	Cum	2.725	24432.289		66,585.62	
	Terrace Floor	Cum	0.557	24432.289		13,605.73	
v	Chajja						
	Ground Floor	sqm	12.024	1485.370		17,860.09	
	First Floor	sqm	14.580	1690.622		24,649.26	
	Second Floor	sqm	13.669	1936.470		26,469.13	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	Third Floor	sqm	13.669	2230.924		30,493.95	
vi	Roof Beam						
	Ground Floor	Cum	39.192	19003.810		7,44,797.33	
	First Floor	Cum	50.666	21399.574		10,84,220.12	
	Second Floor	Cum	48.990	24267.166		11,88,848.46	
	Third Floor	Cum	36.743	27700.549		10,17,787.44	
	Terrace Floor	Cum	2.228	27700.549		61,702.97	
vii	Roof Slab.						
	Ground Floor	Cum	60.360	16626.127		10,03,547.05	
	First Floor	Cum	56.561	18551.054		10,49,265.24	
	Second Floor	Cum	55.056	20853.898		11,48,137.68	
	Third Floor	Cum	55.056	23608.781		12,99,811.26	
	Terrace Floor	Cum	3.176	23608.781		74,971.90	
viii	Staircase-1						
	Ground Floor	Cum	3.198	18849.077		60,288.40	
	First Floor	Cum	3.198	21214.227		67,853.28	
	Second Floor	Cum	2.999	24045.197		72,101.33	
	Third Floor	Cum	2.999	27434.067		82,263.11	
	Terrace Floor	Cum	2.999	27434.067		82,263.11	
11	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-in-charge Cold Twisted bars, Thermo-Mechanically-treated bars.						
	Ground Floor	Qntl.	302.717	10744.105		32,52,423.37	
	First Floor	Qntl.	153.778	10783.559		16,58,272.37	
	Second Floor	Qntl.	135.583	10824.985		14,67,680.82	
	Third Floor	Qntl.	122.334	10868.483		13,29,584.28	
	Terrace Floor	Qntl.	38.650	10868.483		4,20,065.07	
12	12mm cement plaster with water proofing compound mix on external RCC/brick surfaces in cement plaster 1:6 (1 cement : 6 coarse sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (External Surface)						
	Ground Floor	Sqm	378.024	225.333		85,181.21	
	First Floor	Sqm	326.520	234.524		76,576.73	
	Second Floor	Sqm	319.988	244.174		78,132.77	
	Third Floor	Sqm	285.705	254.308		72,656.94	
	Terrace Floor	Sqm	114.405	254.308		29,094.06	
13	16mm cement plaster with water proofing compound mix on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	1460.739	325.064		4,74,833.18	
	First Floor	Sqm	1071.142	333.320		3,57,032.95	
	Second Floor	Sqm	1172.432	341.824		4,00,765.21	
	Third Floor	Sqm	1060.549	350.583		3,71,810.48	
	Terrace Floor	Sqm	114.405	350.583		40,108.46	
14	Providing 6mm thick cement plaster in RCC surfaces including deep chipping and slurry treatment at all floors at all height with cement mortar of mix (1:4) with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours and scaffolding required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.						
	Ground Floor	Sqm	420.082	252.323		1,05,996.33	
	First Floor	Sqm	428.396	258.787		1,10,863.46	
	Second Floor	Sqm	435.731	265.446		1,15,662.92	
	Third Floor	Sqm	421.781	272.304		1,14,852.58	
	Terrace Floor	Sqm	20.889	272.304		5,688.26	
15	Providing and fixing 20mm thick Granite stone flooring (sample of Granite stone should be approved by Engineer-In-Charge) for stair case trade, riser and similar locations where ever required in horizontal/vertical surfaces of required size of approved shade, colour and texture, with moulding edge etc. laid over 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch ups including rubbing, curing, moulding and polishing to give high gloss finish etc. complete as per direction of Engineer-in-charge. In all floors and all heights						
	Ground Floor	Sqm	66.198	3719.033		2,46,192.53	
	First Floor	Sqm	46.946	3754.228		1,76,244.11	
	Second Floor	Sqm	50.299	3791.183		1,90,691.76	
	Third Floor	Sqm	50.299	3829.985		1,92,643.48	
	Terrace Floor	Sqm	50.299	3829.985		1,92,643.48	
16	Providing and laying Vitrified floor tiles 600x600 mm (thickness to be specified by the manufacturer) 1st quality of ,approved make, colours & shades laid on 20 mm thick cement mortar 1:4 (1cement: 4coarse sand) including pointing the joints with white cement and matching pigments, etc. complete as per direction of Engineer-In-Charge at all floors and all heights.						
	Ground Floor	Sqm	356.369	1348.838		4,80,683.51	
	First Floor	Sqm	324.767	1364.735		4,43,221.05	
	Second Floor	Sqm	413.800	1381.427		5,71,634.34	
	Third Floor	Sqm	370.600	1398.954		5,18,452.18	
17	Supplying, fitting & fixing of Vitrified Skirting tiles of premium grade having thickness 8mm to 10mm conforming to IS 13755 of size 60cm x 60cm coloured/printed series in dados, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Ground Floor	Sqm	45.855	1508.463		69,170.58	
	First Floor	Sqm	36.343	1628.104		59,170.38	
	Second Floor	Sqm	41.716	1653.220		68,965.92	
	Third Floor	Sqm	33.987	1679.591		57,084.90	
18	Providing, fitting and fixing Vitrified industrial floor tile of size 300x300 mm of approved make conforming to IS: 13755 laid on 20 mm thick cement mortar 1:4 (1 cement: 4 course sand) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc required for the work all complete as per direction of Engineer-In-Charge (for New work only)						
	Ground Floor	Sqm	45.463	1249.156		56,790.63	
	First Floor	Sqm	34.072	1265.054		43,102.59	
	Second Floor	Sqm	34.072	1281.746		43,671.33	
	Third Floor	Sqm	34.072	1299.273		44,268.50	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
19	Supplying, fitting & fixing of 30cm x 20cm/20cm x 20cm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm conforming to IS 13753 in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 coarse sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						
	Ground Floor	Sqm	129.780	1171.468		1,52,033.06	
	First Floor	Sqm	74.676	1195.387		89,266.75	
	Second Floor	Sqm	80.010	1220.503		97,652.47	
	Third Floor	Sqm	80.010	1246.875		99,762.46	
20	Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.						
	Ground Floor	Rmt	83.928	850.733		71,400.30	
	First Floor	Rmt	83.990	850.733		71,453.05	
	Second Floor	Rmt	63.423	850.733		53,956.03	
	Third Floor	Rmt	58.313	850.733		49,608.36	
	Terrace Floor	Rmt	4.150	850.733		3,530.54	
21	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with 1 mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete						
	Ground Floor	Sqm	35.280	12588.960		4,44,138.50	
	First Floor	Sqm	31.920	12588.960		4,01,839.60	
	Second Floor	Sqm	28.350	12588.960		3,56,897.01	
	Third Floor	Sqm	22.050	12588.960		2,77,586.56	
	Terrace Floor	Sqm	2.100	12588.960		26,436.82	
22	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-I (ISI marked) size 100mm are to be fitted on one side of shutter.						
	Ground Floor	Sqm	1.260	4845.387		6,105.19	
	First Floor	Sqm	1.575	4845.387		7,631.48	
	Second Floor	Sqm	1.575	4845.387		7,631.48	
	Third Floor	Sqm	1.260	4845.387		6,105.19	
23	Supplying, fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame. shutters and all Fitting and fixtures etc. complete as per direction of Engineer-in-charge at all floors and all heights.						
	Ground Floor	Sqm	39.552	5853.945		2,31,535.22	
	First Floor	Sqm	40.365	5853.945		2,36,294.47	
	Second Floor	Sqm	38.347	5853.945		2,24,479.75	
	Third Floor	Sqm	33.415	5853.945		1,95,610.73	
24	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kq.	939.360	405.212		3,80,639.94	
	First Floor	Kq.	908.213	405.212		3,68,018.60	
	Second Floor	Kq.	908.213	405.212		3,68,018.60	
	Third Floor	Kq.	856.800	405.212		3,47,185.64	
25	Providing & Applying priming one coat with Cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	1807.076	94.872		1,71,440.91	
	First Floor	Sqm	1278.240	97.246		1,24,303.99	
	Second Floor	Sqm	1446.112	99.692		1,44,165.24	
	Third Floor	Sqm	1237.624	102.210		1,26,498.01	
	Terrace Floor	Sqm	187.275	102.210		19,141.40	
26	Texture Paint :Providing and applying two coats unitle's in approved shade on a smooth cement sand plaster. The composition of the texture paint should consist of Acrylic Copolymer Resins combined with Quartz, Silica,mineral aggregates, synthetic inorganic pigments, bactericide, fungicides and various other additives,giving the product water repellent properties. The first coat to be applied by brush or wool roller as a base coat, diluted with sufficient water and the final coat applied undiluted with trowel and then finished with acrylic trowel to obtain the specified grooves.The thickness of both coats should be 1.0 to 1.5 mm. The water repellency of the product is 86gm/m2 as per test method IS: 5410-1969.						
	Ground Floor	Sqm	283.518	481.440		1,36,496.91	
	First Floor	Sqm	220.401	481.440		1,06,109.86	
	Second Floor	Sqm	239.991	481.440		1,15,541.09	
	Third Floor	Sqm	199.994	481.440		96,284.87	
	Terrace Floor	Sqm	85.804	481.440		41,309.36	
27	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	1410.616	100.501		1,41,767.72	
	First Floor	Sqm	1049.676	102.739		1,07,842.45	
	Second Floor	Sqm	1206.122	105.044		1,26,695.95	
	Third Floor	Sqm	1037.631	107.419		1,11,460.79	
	Terrace Floor	Sqm	101.471	107.419		10,899.84	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
28	Preparing surface and painting at all height with two or more coats of interior Plastic Emulsion ", of approved shade as per the instructions of the manufacturers; giving uniform shade etc in all heights of walls etc. including interior wall primer & providing scaffolding, cleaning, curing and supply of all materials and labour complete as per drawing, design and direction of Architect/Engineer-In-Charge at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	1269.554	122.366		1,55,350.26	
	First Floor	Sqm	1199.630	124.962		1,49,908.18	
	Second Floor	Sqm	1206.122	127.614		1,53,917.82	
	Third Floor	Sqm	1037.631	130.345		1,35,250.19	
	Terrace Floor	Sqm	101.471	130.345		13,226.23	
29	Providing and Fixing of acoustic pet fiber feature a distinctive design with a print/grove/art interlocking cells, blending visual appeal with functional benefits. They enhance acoustics and ventilation, provide easy access to infrastructure such as HVAC systems and lighting. A stylish alternative that enhances both sound quality and visual appeal. Reducing noise from both sides, it creates a calm, focused environment for improved cognitive comfort. Choose from a variety of shapes and colors, pet fiber nrc value 0.8 to 0.9 as per ASTM C-423/ISO 354. Techno Acoustic pet fiber is easy to install and works seamlessly with slab, gypsum, ply, and other ceiling types. There are varieties types of ceiling installation systems based on the architect design. For ceiling within 1200mm x 1200mm, the panes are directly suspended from the ceiling. For panels bigger than 1200mm x 1200mm, C Channel must be used as a support to maintain structural integrity. All work should be carried out as per the manufacturer's and as per the direction of the Engineer in charge.						
	Third Floor	Sqm	78.120		5,391.42		4,21,177.73
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	Third Floor	Sqm	149.445		6,571.42		9,82,065.86
30	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
	Ground Floor	Sqm	44.327		2613.877		1,15,864.41
	First Floor	Sqm	24.893		2613.877		65,066.72
	Second Floor	Sqm	34.072		2613.877		89,059.36
	Third Floor	Sqm	34.072		2,613.88		89,059.36
31	Providing and laying water proofing treatment to vertical and horizontal surfaces or depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and lapped to each other with bitumen @ 1.7 kg/sqm).						
	First Floor	Sqm	120.824		908.128		1,09,723.20
	Second Floor	Sqm	114.082		908.128		1,03,600.83
	Third Floor	Sqm	114.082		908.13		1,03,600.83
32	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kg.	155.331	405.212		62,941.99	-
	First Floor	Kg.	116.498	405.212		47,206.49	-
	Second Floor	Kg.	104.848	405.212		42,485.84	-
	Third Floor	Kg.	116.498	405.212		47,206.49	-
	Terrace Floor	Kg.	116.498	405.212		47,206.49	-
33	Providing & fixing Restroom Cubicles (of following standard dimensions - width 1000mm, depth 1500mm, door 600mm, overall height from ground 1995mm including 150mm ground clearance) made out of 12mm thick Compact Laminates. This includes providing and fixing of necessary hardware made out of Nylon Polyamide grade 6 & Aluminium alloy grade 6063-T6 powder coated finish in black and other available color hardwares like (1) Self closing hinges in Nylon Polyamide grade 6 in gloss finish in available colors (2) Soft closing thumb turn lock made in nylon polyamide grade 6 in gloss finish in available colors (3) Single Coat hook in nylon polyamide grade 6 in gloss finish, available in similar available colors (4) U & F- profiles in Aluminium alloy grade 6063-T6 with powder coating in available colors (5) Nylon polyamide grade 6 Adjustable Leg (6) Top rail along with Nylon Polyamide grade 6 with end cap is a Round D shaped extrusion made of Aluminium alloy grade 6063-T6 with Powder Coating in available colors, (7) Rubber, (8) Screws & wall Plugs (SS 316).						
	Ground Floor	Nos	4.800		43424.000		2,08,435.20
	First Floor	Nos	6.000		43424.000		2,60,544.00
	Second Floor	Nos	6.000		43424.000		2,60,544.00
	Third Floor	Nos	6.000		43424.000		2,60,544.00
34	Providing & Fixing Urinal Privacy Dividers made out of 12mm thick compact laminates. This also includes providing and fixing necessary hardware like (1) L bracket (2) Screws & wall Plugs (SS- 316).						
	Ground Floor	Nos	3.000		7493.000		22,479.00
	First Floor	Nos	3.000		7493.000		22,479.00
	Second Floor	Nos	3.000		7493.000		22,479.00
	Third Floor	Nos	3.000		7493.000		22,479.00

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.				-	-	
a)	Supplying all materials, labour, T&P and fixing standard sized two way Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP Two way bib cock with Flange	Each	46.4	1,209.97	-	56,142.70	
b)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia. nominal bore Long body Bib Cock	Each	10.4	1,471.22	-	15,300.73	
c)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia. nominal bore Short body Bib Cock	Each	9.6	1,209.97	-	11,615.73	
d)	Supplying all materials, labour, T&P and fixing standard sized 15mm dia angular Stop cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP angle stop cock with wall flange	Each	9.6	1,209.97	-	11,615.73	
e)	Supplying all materials, labour, T&P and fixing standard sized pillar cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge. 15mm dia brass pillar cock Cat.	Each	19.2	1,471.22	-	28,247.50	
f)	Fixing of 25mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 32mm dia brass or gun metal full way valve	Each	4.8	1,095.28	-	5,257.32	
g)	Fixing of 32mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 32mm dia brass or gun metal full way valve	Each	4.8	1,603.50	-	7,696.81	
h)	Fixing of 40mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 40mm dia brass or gun metal full way valve	Each	4.8	2,035.85	-	9,772.10	
	15mm dia PVC connection pipe 450 mm long	Each	9.6	40.12	-	385.15	
	15mm dia CP Extension Nipple	Each	9.6	69.97	-	671.75	
i)	Providing and fixing circular type stainless steel jalli (grating) with hole for floor /nahani trap etc complete as per specification and direction of the Engineer in charge.	Each	46.4	104.31	-	4,840.08	
6	Supplying all materials, labour, T&P and fixing Health Faucet of . complete with Chromium plated brass brackets fixed to wooden plugs with Chromium plated brass screws as per specification and direction of the Engineer-In-Charge.				-	-	
	15mm dia CP Health Faucet of . 1.2mtr long, 8MM dia ..	Each	24	1,612.00	-	38,687.95	
7	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.				-	-	
a)	In Building				-	-	
	110mm diameter U-PVC SWR pipes	Mtr	68	541.38	-	36,814.11	
	110mm U-PVC door Tee	Each	20	455.48	-	9,109.60	
	110mm U-PVC offset	Each	17.6	480.73	-	8,460.88	
	110mm U-PVC door bend	Each	24	346.45	-	8,314.75	
	110mm U-PVC plain shoe bend	Each	28	273.76	-	7,665.28	
	110mm U-PVC vent cowl	Each	16	68.68	-	1,098.82	
	110mm P-trap	Each	28	586.81	-	16,430.79	
	110mm U-PVC plain bend	Each	28	273.76	-	7,665.28	
	100mm S/S coupling with EPMD	Each	28	431.05	-	12,069.51	
8	Supplying all materials, labour T&P and cutting holes through existing brick or laterite masonry wall for taking H.C.I pipes and fittings including making good the damages etc. all complete as per P.H.Specification and direction of the Engineer-In-Charge.				-	-	
	250mm to 375mm thick wall	Each	12	248.51	-	2,982.10	
9	Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern of . with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle, unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and connecting the inlet pipe with supply main etc all complete as per the specification and direction of the Engineer-in-charge.				-	-	
	10 Liters capacity PVC cistern with 32mm dia flush bend. sleek fresh single flush Starwhite,	Each	20.8	14,878.62	-	3,09,475.30	
10	Supplying all materials, labour, T&P and fixing vitreous china water closet, squatting pan (Indian type W.C pan/Orissa pattern squatting pan) of duly embedded in cement concrete (1:4:8) using 4cm size hard granite metal including fixing a pair of vitreous china 250mm x 130mm x30mm footrest, fixing 100mm dia HCI 'p' or 's' trap (with/without 50mm dia horn) for water colset squatting pan including jointing the trap with pan in cement mortar (1:1) cutting the floor and mending good the damages etc all complete as per specification and direction of the Engineer-In-Charge.				-	-	
		Each	6.4	3,348.60	-	21,431.07	
11	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C. pan) of . with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of the Engineer-In-Charge.				-	-	
	EW/C with 'p' / S trap plain	Each	12.8	6,790.00	-	86,912.00	
12	Supplying all materials, labour T&P and fixing wash basins of with hole for pillar taps with cast iron or M.S.brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, etc all complete as per specification and direction of the Engineer-In-Charge.				-	-	
		Each	1.6	10,185.41	-	16,296.65	
	Countersunk Wash Basin				-	-	
13	Supplying all materials, labour T&P and fixing counter sunk Wash Basin Size - 545mmx545x180mm, Cat.No. FLS-WHT-29601 with all fittings as per direction of the engineer-in -charge.	Each	22.4	8,071.55	-	1,80,802.81	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
14	Supplying all materials, labour, T&P and fixing Flat back large pattern urinal the following sizes including connecting the urinal with 32mm dia pvc waste pipe 910mm long by means of white lead mixed with chopped hemp, fixing 32mm dia CP dome waste, 15mm dia CP spreader including cutting holes in walls land making good the damages with supply of wooden plugs, screws and cement etc all complete as per specification and direction of the Engineer in Urinal (Back Inlet) With Fixing Accessories	Each	9.6	7,583.74	-	72,803.92	
15	Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm thick A.C.sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of the Engineer-in-charge.				-	-	
	750mmx600mm size B.E.mirror	Sqm	10.8	791.19	-	8,544.85	
16	Supplying all materials, labour, T&P and fixing standard size glass-shelf Glass-Shelf with Chromium Plated brass brackets and guard rails complete, fixed to wooden plugs with Chromium Plated brass screws				-	-	
	glass shelf 600mm long	Each	24	1,900.51	-	45,612.19	
17	Supplying all materials,labour, T&P and fixing standard sized CP towel ra-il 24" of . complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer-In-Charge				-	-	
	25mmx600mm long CP towel rail	Each	24	1,811.65	-	43,479.70	
18	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated brass towel ring complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge	Each	43.2	827.65	-	35,754.57	
19	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated soap case of . complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge				-	-	
	CP soap holder	Each	27.2	754.96	-	20,535.02	
20	Supplying all materials, labour, T&P and fixing standard sized Robe Hook of . complete with all as per specification and direction of the Engineer in charge.	Nos	24	1,022.59	-	24,542.11	
21	Supplying all materials, labour, T&P and fixing standard sized Soap Dispensor of . complete with all as per specification and direction of the Engineer in charge. Soap dispense with Glass Bottle.	Nos	27.2	1,567.98	-	42,649.16	
22	Providing and fixing Salem Stainless steel A ISI (18/8) kitchen sink as per IS : 13983 Kitchen Sink Double Bowl with Round Waste Coupling	Nos	0.8	19,363.80	-	15,491.04	
23	Supplying & fixing of Matrix Set-1 Mat code-70002,EWC : (P-18) (WB 46X36 with one pair mounting brackets, EWC & cistern complete with fittings & seat cover, one no hinged rail 76 cm and 4 nos of grab rail 60cm complete with all as per specification & direction of the Engineer in charge.	Nos	3.2	83,647.37	-	2,67,671.58	
24	Supply all materials, labour, T&P and providing fitting & fixing RO cum Cooler-cum-Purifier Storage Capacity-80 ltr With-in-built purifier (UV Based). all complete as per approved drawing, specification and direction of the EIC.	Nos	3.2	1,47,559.00	-	4,72,188.80	
25	Supplying all materials, labour, T&P and fixing 100 mm dia wall mounted over head shower & Shower arm . including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineer-in-charge. 100 mm dia CP overhead shower with Arm	Nos	4.8	2,816.66	-	13,519.97	
26	Supplying all materials, labour, T&P and fixing standard sized 15mm dia Single lever Concealed Deusch mixer with provision for connection to overhead shower only of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. Concealed stop cock	Each	52.8	3,019.86	-	1,59,448.40	
27	Fixing Rotational moulded Poly Propelene double layer cylindrical vertical water storage tanks conforming to IS 12701-1996 including cutting holes through the tank and fixing mild steel tubes and fitting and providing extra sockets and jam nuts, fixing ball valve etc,including hosting upto a height of 5 mtr above ground level and placing the tank to the required postion etc all complete as per specification and direction of the Er-in-charge				-	-	
	5000 ltr capacity Double layer cylindrical vertical water storage tanks	Each	4	82,883.54	-	3,31,534.16	
					-		
					-		
	EXTERNAL P.H. & SANITARY WORK. :				-		
28	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				-		
	250mmx250mm with RCC cover	Each	6	1,681.38	-	10,088.29	
29	Supplying all materials, labour, T & P and constructing Inspection chamber of the following inside size with CC (1:3:6) mix using 40mm size h.g. metal on bed, 1st class Fly Ash brickwork in CM (1:6) , moulding and shaping the channel inside and benching with CC (1:2:4) using 12mm size h.g. chips, 12mm thick cement plastering (1:3) finished with punning to inside , cement flush pointing (1:3) to outside , R.C.C. cover slab in (1:2:4) using 12mm size h.g. chips with RCC man hole cover , earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering ,curing, conveyance of all materials to worksite , payment of royalty , taxes etc. all complete as per aproved drawing , specification and direction of Engineer-in-charge.				-	-	
	Inside size 760mm x760mm x450mm	Each	8	10,581.41	-	84,651.31	
30	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized PVC pipes conforming to IS: 4985/2000 of the following outside dia for class 3(0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer-in-charge.				-	-	
a)	110mm dia u-pvc pipe alround concrete	mtr	120	1,260.59	-	1,51,271.28	
b)	160mm dia u-pvc pipe alround concrete	mtr	160	2,042.11	-	3,26,737.28	
31	Supplying all materials, labour, T&P and constructing Man hole chamber of the following size with cement concrete (1:3:6) using 40 mm size HG metal on bed , 1st class Fly Ash Brick work in CM (1:6) moulding and shaping the channel inside and benching with CC (1:2:4) mix using 12 mm size H.G chips, 12 mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside ,RCC cover slab in (1:2:4) mix using 12 mm size H.G chips with RCC man hole cover , earth work in all kinds of soil and refilling the cavity around the camber including watering, curing, conveyance of all materials to worksite payment of royalty, taxes etc. all completed as per approved drawing, specification and direction of Engineer-in-charge.				-	-	
a)	Inside size 900mmx900mmx900mm	each	6	20,040.88	-	1,20,245.30	
b)	addl depth of 0.30m upto 4.50m depth	each	2	3,259.99	-	6,519.97	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
32	Supplying all materials, labour, T&P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer-In-Charge				-	-	
a)	RCC rings soakway pit 1.22m dia x 2.0m deep	each	1	24,017.48	-	24,017.48	
33	Supplying all materials, labour, T&P and constructing soakway pit of the following size with dry brick walling from bottom upto invert of inlet pipe and 1st class K.B brickwork in cement mortar (1:6) for the remaining height at top, cement concrete (1:4:8) using 40mm size hg chips on bed, 12mm thick cement plaster (1:4) inside and outside over masonry brickwork, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge				-	-	
	Brick masonry soakway pit 1.20m dia x 2.00m deep	each	1	21,740.44	-	21,740.44	
	BOREWELL				-		
	Sinking of 200 mm dia (8") Gravel Packed Production Well including saline sealing where necessary through Rotary Drilling Rig 300 Mtrs with PVC/ GI Casing Pipes				-		
34	Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level in alluvial soil strata by Mud Rotary Rig drilling as required to suit the site condition as per the direction of Engineer-in-Charge including use of own rigs with its accessories, tools and plant and consumables etc for lowering of finished bore suitable for lowering of 200 mm dia GI/PVC pipes for housing, fitted with socket and with or without well screen as per the necessity for the soft, medium, hard and boulder formation (GI/PVC casing pipes if required by the contractor to prevent collapse of over burden portion) including lower and withdrawing of casing pipe after drilling 200 mm to 450 mm dia in over burden portion.				-	-	
(I)	00 mtrs. to 100 Mtrs.	Mtr	80	2,029.95	-	1,62,396.32	
(II)	100 mtr. to 200 Mtrs	Mtr	15	2,449.68	-	36,745.20	
(III)	200 Mtrs to 300 Mtrs. and above	Mtr	10	2,778.78	-	27,787.82	
35	Supply of all labour & T&P for lowering the following size G.I./PVC pipes with or without slotted pipes as per the necessity from ground level and fitted and fixed up in perfectly vertical position, including cutting and threading pipe and slotted pipe and fixing all jointing materials etc. complete and keeping the top of the casing pipe threaded including plugging tube wells to prevent entry of foreign materials from above excluding cost of fittings & jointing materials.				-	-	
	00 mtrs. to 300 Mtrs.	Mtr	100	135.35	-	13,534.60	
36	Cleaning and developing the production well using their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per the direction of Engineer-in-Charge.	Each	1	34,979.57	-	34,979.57	
37	Supplying all labour, tools and plant and grouting with cement bentonite slurry for saline sealing in the bore around the 200mm dia P.V.C. Casing pipe etc all complete as per the direction of the Engineer-in-Charge. (Excluding the cost of Cement.)	Each	1	4,207.64	-	4,207.64	
38	Supplying all labour, T&P and materials for packing the bore with washed gravel (size P-6) around the pipes in good quality excluding cost of gravel etc complete as per the direction of the Engineer-in-Charge.	Each	1	1,343.19	-	1,343.19	
39	Supplying all materials labour and T&P and grouting with cement slurry for sanitary sealing around the GI/PVC casing pipe up to 3 mtrs. Below ground level including cost of cement all complete as per the direction of Engineer-in-Charge	Each	1	4,989.04	-	4,989.04	
40	Supplying all materials, labour, tools and plant and withdrawing casing pipe from the unsuccessful bore and depositing in the departmental store in good condition.	Mtr	100	135.35	-	13,534.60	
	Cost of 200 mm dia PVC Pipe	mtr	90	2,095.21	-	1,88,568.72	
	Cost of cement	qtl	6	647.55	-	3,885.29	
	Cost of sand 75m	cum	2	267.86	-	535.72	
	washed gravel	cum	2	931.96	-	1,863.93	
	Cutting slots in casing pipe	mtr	8	578.20	-	4,625.60	
					-		
					-		
	SEPTIC TANK. (100 USER)				-		
41	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works up to and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.	Cum	39.578625	359.78	-	14,239.68	
42	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15 cm in depth : consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.	Cum	19.8882591	197.92	-	3,936.21	
43	Supplying of filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of E.I.C.	Cum	3.5181	682.22	-	2,400.11	
44	Providing and laying plain cement concrete 1:3:6 (1 cement:3 sand: 6 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curing, shuttering etc. complete all depth and height.	Cum	1.87632	6,182.40	-	11,600.16	
45	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	Cum	3.1376	8,658.77	-	27,167.75	
46	Providing, lifting, hoisting and laying Reinforced cement concrete of M-250 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.				-	-	
	a) Base	Cum	2.943	7,499.37	-	22,070.65	
	b) Wall/Beam				-	-	
	Septic tank	Cum	6.4291875	18,429.61	-	1,18,487.42	
	c) Slab	Cum	2.09137125	16,051.93	-	33,570.54	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
47	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-In-Charge.Cold Twisted bars, Thermo-Mechanically-treated bars.	Qntl	8.59766906	10,744.10	-	92,374.26	
	Fly Ash bricks Masinary (1:6) (in F & P).				-	-	
48	First class Fly Ash Brick masonry using F.A. bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.	Cum	0.962	6,600.49	-	6,349.67	
49	12mm cement plaster on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including neat cement punning & necessary scaffolding, curing etc. all complete at all floors and all heights.	Cum	63.0231	248.24	-	15,644.64	
	16 mm Plastering.				-	-	
50	Providing 16mm. thick cement plaster in all floors at all height with cement mortar of mix (1:6) with OPC 53 grade cement finished smooth to inside smooth surface of brick masonry walls after racking out the joints including watering and curing, rounding of corners etc. complete with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours, sundries, T&P and scaffolding required for the work etc. complete in all respect as desired by the Engineer in charge.	Sqm	5.967	322.30	-	1,923.14	
51	Supplying all materials, labour, T&P and providing , fitting & fixing 100mm x100mm x100 mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.	Each	1.6	459.26	-	734.81	
52	Supplying all materials ,labour, T&P and making MS STEP IRON IN 20MM diameter MS steel bars & fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	3.75	317.66	-	1,191.21	
					-		
					-		
	ELECTRICAL:-				-		
1	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked with 20 mm dia HMS FRLS PVC conduit ISI marked switch ISI marked and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (flame retardant type) of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. . All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials..Each lightpoint should have provision for ceiling rose and angle holder point. In all the rooms there shall be two types of switchboard- one for raw and the other one for emergency. The inverter switchboard shall include atleast one fan, one light and one 6A emergency socket.				-		
a)	GROUP-A	Nos	70	726.88	-	50,881.60	
a-1)	GROUP-B	Nos	80	1,078.52	-	86,281.60	
a-2)	GROUP-C	Nos	150	1,525.74	-	2,28,861.00	
B	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)((flame retardant type)) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	54	231.28	-	12,489.12	
c)	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 2 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	36	650.18	-	23,406.48	
d)	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power)All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	36	810.66	-	29,183.76	
e)	Supplying,fixing of 2x6A Plug on the separate board with complete fitting by 02 no of 6A switch & socket(modular type) (flame retardant type) with suitable size modular box & metallic cover plate (both side)(flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power)(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	54	1,406.56	-	75,954.24	
f)	Supplying,fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 nos 6A switch & socket(modular type) (flame retardant type) with suitable size modular box & metallic cover plate (both side)(flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power). (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials.	Nos	10	2,356.46	-	23,564.60	
2.a)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (2X1.5+1X1.5)	Mtr	700	187.62	-	1,31,334.00	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
b)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit. (2X2.5+1X1.5)	Mtr	920	204.14	-	1,87,808.80	
c)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit (2X4+1X1.5)	Mtr	610	225.38	-	1,37,481.80	
d)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty conduit. (2X6+1X2.5)	Mtr	72	261.96	-	18,861.12	
e)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as approved Make as required as per direction of Engg.-in-Charge. 4 nos single core 6 sq. mm copper wire for phase and neutral and 02 nos of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit (4X6+2X4)	Mtr	60	376.42	-	22,585.20	
f)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 10 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit. (LFDB TO FLOOR PANEL TO TPN BDB power) (4X10+2X6)	Mtr	60	526.28	-	31,576.80	
3	Supplying and fixing 32 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. ISI marked as approved, All the Components should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.(for kitchen)	Nos	2	3,835.00	-	7,670.00	
4	Supplying and installation of AC Point having 16-20A DP MCB, C series with enclosure, of suitable size as required as per direction of Engg.-in-Charge. All the Components should be warrantied for a replacement period of 1 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	32	1,593.00	-	50,976.00	
5	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover from approved Make as required as per direction of Engg.-in-Charge. All the Components should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	2	252.52	-	505.04	
6	S/F of Bakelite angle holder/batten holder of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge. All the Components should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	each	18	89.68	-	1,614.24	
7	S/F of 5 step type Modular electronic Fan Regulator ISI Marked with all connection complete in all respect as per direction of Engineer in charge	Each	50	441.32	-	22,066.00	
8	Sub-Head II (Light fitting Fixture & Fan)				-		
1	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	4	3,693.40	-	14,773.60	
2	Supplying, installation, of exhaust fan of heavy duty 380 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	2	4,343.58	-	8,687.16	
3	Supplying, installation, testing and commissioning of 1200 mm sweep Copper wound BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m³/min from approved Make including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge, Replacement Warranty will be 4 years	Nos	54	4,394.32	-	2,37,293.28	
4	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated, die-cast Aluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens, , CRI not less than 80, CCT of 6000 degree K, THD less than 10%, with electronic driver, internal surge protection of 3 KV, L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	200	1,109.20	-	2,21,840.00	
5	Supplying an fixing of recess/surface mounted 2'x2' 36 W(595mmx595mmx70mm) square shaped LED with lumen efficacy not less than 130lm/W, CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%, internal surge protection of 3 KV, complete with Non integrated isolated electronic driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation) and all other accessories suitable for operation on 140- 270 V, 50 Hz, L70 @50,000 burning hrs (5 years warranty) as required as per direction of Engg.-in-Charge. The luminaire must be Replacement Warranty will be 5 years.	Nos	72	4,414.38	-	3,17,835.36	
7	SITC of energy efficient LED tube light fittings with decorative aluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 2 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. (of approved Make). The luminaire should be Replacement Warranty will be 2 years.	Nos	18	859.04	-	15,462.72	
8	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing, High optically efficient diffuser, above wash basin complete with all accessories etc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	20	514.48	-	10,289.60	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
9	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as per direction of Engg.-in-Charge. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) of ISI mark as approved.	Nos	50	38.94	-	1,947.00	
c)	BDBS,DB,AC DB,FLOOR PANELS,MCBS				-		
1	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 3 years				-		
a)	8Way(8+(8x3)) Way TPN MCB DD 7 Segment DB Horizontal Type as per IEC 61439-3 with configuration of incoming I-8 modules,sub incommer-12 module & out going-24 modules,suitable for Flush mounting and Surface mounting with Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door Warranty on DB is 3 years	Nos	6	7,706.58	-	46,239.48	
b)	Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) Warranty on DB is 3 years	Nos	4	3,375.98	-	13,503.92	
c)	2+4 way MCB Enclosure DB (GLAZED door)Warranty on DB is 3 years	Nos	2	1,993.02	-	3,986.04	
d)	4 Way(8+(4x3)) Way TPN MCB DD 7 Segment DB Horizontal Type as per IEC 61439-3 with configuration of incoming I-8 modules,sub incommer-12 module & out going-12 modules,suitable for Flush mounting and Surface mounting with Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door Warranty on DB is 3 years	Nos	4	5,341.86	-	21,367.44	
2	Supplying and fixing 6-32 amps rating, 240 volts, C series,10KA breaking capacity, Double poles MCB of in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. Warranty on MCB is 1 years.	Nos	12	900.34	-	10,804.08	
3	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series,10KA breaking capacity, single poles MCB of the existing MCB DB complete with connections as per direction of Engg.-in-Charge. Warranty on MCB is 1 years.	Nos	120	378.78	-	45,453.60	
4	Supplying and fixing 40 Amps rating,C series,10KA breaking capacity, 2P, 240 volts, RCCB 30mA in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 1 year	Nos	24	3,111.66	-	74,679.84	
5	Supplying and fixing 63Amps 2P 240 volts RCCB 30 mA in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.The RCCB should be Replacement Warranty will be 1 year	Nos	16	3,465.66	-	55,450.56	
6	Supplying and fixing 40Amps 4P 415 volts, MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 1 years	Nos	12	2,555.88	-	30,670.56	
7	Supplying and fixing 63Amps rating,C series,10KA breaking capacity, 4P 415 volts MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge..The MCB should be Replacement Warranty will be 1 years.	Nos	10	3,027.88	-	30,278.80	
d)	(Earthing) INSTALLATION				-		
1	Supplying,installation,testing & commissioning Of Earthing with copper earth plate 600 mm x 600mm x 6 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc (WITH charcoal and salt) as required as per direction of Engg.-in-Charge.	Nos	2	21,309.62	-	42,619.24	
2	Supplying,installation,testing & commissioning of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge	Nos	4	7,670.00	-	30,680.00	
3	Providing and fixing SWG 6 GI wire on surface or in recess for loop earthing as required,as per direction of Engg.-in-Charge. (to be used for Street Light)	Mtr	200	34.22	-	6,844.00	
4	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	100	177.00	-	17,700.00	
5	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge. Main LT ROOM dg panel earthing	Mtr	50	1,320.42	-	66,021.00	
6	Providing and fixing 50mm x 6 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	30	377.60	-	11,328.00	
e)	CABLING AND END TERMINATION MAIN AREA				-		
1	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials				-		
	3.5core x 240 sq mm	Mtr	150	2,683.32	-	4,02,498.00	
	3.5core x 120 sq mm	Mtr	60	1,428.98	-	85,738.80	
	4core x 16 sq mm	Mtr	50	359.90	-	17,995.00	
	3.5core x 35 sq mm	Mtr	30	501.50	-	15,045.00	
	3.5core x 70 sq mm	Mtr	20	901.52	-	18,030.40	
2	LAYING OF CABLE				-		
2.1	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	20	185.26	-	3,705.20	
2.2	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	100	210.04	-	21,004.00	
2.3	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 120 SQ. MM but not exceeding 400 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	90	236.00	-	21,240.00	
2.4	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	32	67.26	-	2,152.32	
2.5	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	32	93.22	-	2,983.04	
2.6	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in open duct etc as required as per direction of Engg.-in -charge.	Mtr	32	54.28	-	1,736.96	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
2.7	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	30	74.34	-	2,230.20	
2.8	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	20	123.90	-	2,478.00	
2.9	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 120 SQ. MM From 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	18	188.80	-	3,398.40	
2.1	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 400 SQ. MM From 120 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	15	192.34	-	2,885.10	
3	Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.				-		
a)	3.5 core x240 sq mm	Nos	4	944.00	-	3,776.00	
b)	4 core x16sq mm	Nos	2	273.76	-	547.52	
c)	3.5 core x35 sq mm	Nos	2	479.08	-	958.16	
d)	3.5 core x120 sq mm	Nos	6	623.04	-	3,738.24	
e)	3.5core x 70 sq mm	Nos	6	555.78	-	3,334.68	
4	Providing,fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.				-		
a)	50 mm dia	mtrs	20	529.82	-	10,596.40	
5	Providing,fixing and laying of following dia HDPE pipe (medium class) in ground complete with fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.				-		
a)	200 mm dia	mtrs	60	1,021.88	-	61,312.80	
f)	PANELS				-		
	MAIN CONTROL PANEL AT GF				-		
	MAIN CONTROL PANEL AT GF				-		
1	S/I/T&Commissioning of CPRI tested LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint followed by 9 tank acid treatment is designed as G.A drawing as per direction of Engg.-in-Charge.Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list.60X10MM Separate Aluminium Earth bus bar should be installed. All the feeders shall have ON/OFF/TRIP indication.	Set	1	4,05,800.82	-	4,05,800.82	
	In commer-1-01 number of 400A 4P Icu=100%Ics,36Ka LSIG MCCB with micro processor based release Electrical locking for normal & DG				-		
	In commer-2-01 number of 400A 4P Icu=100%Ics,36Ka LSIG MCCB with micro processor based release Electrical locking for normal & DG				-		
	Busbar-1&2 04 numbers of 500Amps AL busbar with 1A/SQ.MM current carring capacity. busbar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)				-		
	Out going- 02 numbers of 100A 4P MCCB,,25Ka MCCB withTMR based release with adjustable overload ,Icu=100%Ic				-		
	Out going- 04 numbers of 160A 4P MCCB,,25Ka MCCB withTMR based release with adjustable overload ,Icu=100%Ics				-		
	Out going- 4 numbers of 40A rating,10 KA breaking capacity ,C series, 4P MCB				-		
	Out going- 4 numbers of 63A rating,10 KA breaking capacity ,C series, 4P MCB				-		
	Out going- 4 numbers of 63A rating,10 KA breaking capacity,C series, 4P MCB with timer for street light				-		
	Instrument- (i) 06 numbers phase indicating lamp with toggle switch & HRC fuse.				-		
	(ii) digital type multifunction meter with CT for voltage,current,frequency,PF,THD indication with RS 485 COMPACTIVITY FOR bms data for all the incoming feeders				-		
	2 no. 3P+N 65kA type 1+2 SPD with 63A rating,10KA breaking capacity ,4P MCB				-		
	FDB POWER AT 1F-2F-3F				-		
2	S/I/T&Commissioning of LT indoor wall mounted cubical type electrical main panel (forpower circuit) made out by 2mm CRCA steel sheet duly derusted & painted by simens grey powder cote paint is designed as G.A drawing. (FOR ALL MAIN CONNECTED LOAD) BUILDING power)as per direction of Engg.-in-Charge. Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list.. 20X10MM Separate Aluminium Earth bus bar should be installed.ON,OFF,TRIP INDICATION for incommer to be provided.	Set	3	94,518.00	-	2,83,554.00	
	In commer- 1 number of 160A 4P Icu=100%Ics, 25KA MCCB with adjustable TM based Release with Ics=100% Icu.				-		
	Busbar-1&2 04 numbers of 200Amps AL busbar with 1A/SQ.MM current carring capacity. busbar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)				-		
	Out going- 6 numbers of 63A 4P MCB 10KA,C series (Make-LEGRAND-DX3/ Siemens-Betaquard/ Schneider- Acti 9/ABB SB 200)BDB P/AC				-		
	Out going- 4 numbers of 6-32A 4P MCB 10KA,C series				-		
	Instrument- (i) 03 numbers phase indicating lamp with toggle switch & HRC fuse.				-		
	(ii) 01 set of 3 ph digital type Voltmeter. (iii)01 set of 3 ph digital type Ammeter(0-100)A with CTs 100/5A 3 nos class 1 type(of Approved Make)				-		
	1 no. 3P+N 40kA 4P type 2 SPD with 63A rating,10KA breaking capacity ,4P MCB 10KA,C series				-		
	FDB LIGHT AT -1F-2F-3F ,SERVICES				-		
	UPS PANEL				-		
5	S/I/T&Commissioning of LT indoor wall mounted cubical type electrical main panel made out by 2mm CRCA steel sheet duly derusted & painted by simens grey powder cote paint is designed as G.A drawing. as per direction of Engg.-in-Charge. Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list.20X10MM Separate Aluminium Earth bus bar should be installed. ON,OFF,TRIP INDICATION for all incommer to be provided.	Set	1	47,605.92	-	47,605.92	
	Incommer- 01 nos 100 A DP ,25KA MCCB with adjustable Thermal based Release with Ics=100% Icu. (Make-LEGRAND-DPX3 / Siemens-3VA Model/ Schneider-CVS)with shunt trip,with axulary for BMS(with on/off indication)				-		
	Busbar-1&2 04 numbers of 125 Amps AL busbar with 1A/SQ.MM current carring capacity. busbar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)				-		
	Out going- 4 no 40 A 2P MCB 10KA,C series				-		
	Out going- 4 no 63 A 2P MCB 10KA,C series				-		
	Instrument- (i) 03 numbers phase indicating lamp with toggle switch & HRC fuse.				-		
	(ii) 01 set of digital type multifunction meter with CT for voltage,current,frequency,PF,THD indication with RS 485 COMPACTIVITY FOR bms data.				-		
	1 no. 3P+N 40kA 2P type 2 SPD with 100A rating,10KA breaking capacity ,				-		
26.1	Online UPS : Input supply : Single Phase, Output Supply : Single Phase				-		

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	Supplying, installation, Testing & Commissioning of following capacity at full load (Unity Power Factor) ON LINE Uninterrupted Power Supply (UPS) system suitable for Single Phase input, Single Phase output AC Supply. The UPS shall include a Rectifier, inverter, battery bank suitable for 30 minutes back up (Battery VAH capacity shall not be less than 1600 VAH per KVA of UPS rating per Hour backup time) on full load (Battery shall be VRLA, SMF in ABS Container) and Static Bypass switch along with provision for manual bypass, suitable isolation transformer for additional protection against neutral faults etc. The UPS systems shall be Microprocessor based Digital Control, using Insulated Gate Bipolar Transistor (IGBT)'s both for the rectifier & inverter with PWM (Pulse Width Modulation) Technology. The quality of design, manufacturing and inspection process should confirm to the relevant Inter-national standards such as IEC/EN/VDE. The operating efficiency of the UPS systems shall be >95% at 100% non-linear loads. Current total harmonic distortion (ITHD)/ total demand distortion (TDD) on the input grid shall be < 5% at 100 %load. (The required LC filters shall be included in UPS cost), extreme power factor kit to be include to limit the input pf to 0.99 and output power factor shall be unity (i.e. kw rating of the UPS shall be kva rating x 1) however UPS shall be suitable to take load at 0.7 lagging to 0.7 leading power factor loads. UPS shall be suitable for incoming supply AC single phase 160-270V 50 Hz and delivering output AC supply true sine wave single phase 220/230/240 Volt, 50 Hz +/- 0.2Hz, Overload capacity of 120% for 10 mins and 150% for 1 minute.				-		
	Operating temperature 0 to 40 deg C, Relative humidity 0-95% non condensing, noise level less than 60db at 1 meter distance, Protection for Under voltage, over voltage, abnormal output voltage, battery over charging, output over current, short circuit, battery deep discharge , 10 KV surge. Display for watt/VA,Amp and Voltage power parameters etc. UPS shall comply with low voltage electromagnetic compatibility (EMC) achieved as per EN 6204, EN6204 Part I and Part 2, it shall be a Voltage and Frequency Independent (VFI) type UPS (as per standard IEC 62040-1, 2 & 3) . The UPS should be with IGBT Based Inverter Technology, Communication RS232/RS485/SNMP port open protocol for BMS integration as per approved by Engineering in charge. Required battery racks, DC breaker of suitable rating and interconnecting copper conductor cable of suitable size and connectors and all required accoseries are inclusive in the cost. The UPS should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location etc				-		
26.1.1	2 KVA	Each	1	45,894.00	-	45,894.00	
26.1.2	3 KVA	Each	1	55,233.00	-	55,233.00	
26.1.3	6 KVA	Each	0	1,09,793.00	-	-	
	CABLE TRAY /RACE WAY FOR DISTRIBUTION OF POWER				-		
1	Supplying,fixing of perforated cable trays with horizontal & vertical bends,reducers ,tees,crossover,brackets & other accessories ar requited confirming to IS-IEC -61537 ,the cable tray shall be galvanised for corrosion protection confirming to DIN EN 10346/ISO 1461. Size 60mm(H) x 200mm(W) The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications as required as per direction of Engg.-in-Charge.	mtrs	90	713.90	-	64,251.00	
2	Supplying,fixing of perforated cable trays with horizontal & vertical bends,reducers , tees, crossover, brackets & other accessories ar requited confirming to IS-IEC -61537 ,the cable tray shall be galvanised for corrosion protection confirming to DIN EN 10346/ISO 1461. Size 60mm(H) x 300mm(W). The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications as required as per direction of Engg.-in-Charge.	mtrs	80	814.20	-	65,136.00	
3	Supplying,fixing of FLOOR RACE WAY WITH JUNCTION box GALVANIZED(GC) type AS PER EN-ISO-1461 , with internal dimensions of size 38mm(H) x 225mm(W), (With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge.	mtrs	44	2,101.58	-	92,469.52	
					-		
	10 PASSENGER LIFT WITH WIRING(1.1)				-		
1	Supply,Installation, Testing & Commissioning of of 10 Passenger gearless with Machine room 1088 kg Capacity,Elevator G+3(4 Stop) Floors car size- depth 2200mmx2000mm width with ACVVVF drive/Control for constant load of 680 kg ARD 1.25 MPS, SS honeycomb interior ,2hr fire rated door with simplex operation without attendant car position indicators,battery operated alarm bell & emergency light,SS honeycomb finish door finished car interior, recess Granite flooring ,power operated centre opening automatic sliding SS honeycomb finish doors for car entrance & hoist way entrance etc .SS material shall be of grade SS-304 and thickness not less than 1.6mm. Machine beams,buffer support channels,faia plate including sills pit ladder metal screen in Elevator pit etc.as per specification including cost of (i)Overload detection,(ii)Voice announcement,(iii) Intercom,(iv)Braille Buttons with all Civil & Electrical works required for installation of Elevator in the existing lift well and machine room,scaffolding ,floor cutting including Fireman's switch complete in all respect as per the instruction of Engg. in charge.The Elevator should be suitable for physically handicapped person.	JOB	1	21,10,902.00	-	21,10,902.00	
					-		
	Lightning Arrester				-		
1	Lightning Protection :- Supply of 8 mm Aluminum Round Conductor.Tested as per IEC 62561. as per direction of engineer in charge.	Mtr	160	175.82	-	28,131.20	
2	Supply of Roof conductor holder for parapet- Polyamide Conductor holder:With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder.Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance.Tested as per IEC 62561. as per direction of engineer in charge.	No	70	60.18	-	4,212.60	
3	Supply of Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance. Tested as per IEC 62561.	No	12	234.82	-	2,817.84	
4	Supply of Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Tested as per IEC 62561.(2nos/expansion piece).	No	8	239.54	-	1,916.32	
5	Supply of 1 mtr vertical air terminal with mounting accessories on the flat surface to meet the requirements of IS/IEC 62305. Tested for Electrical , mechanical and chemical as per IEC 62561. Tested for 100kA lightning current.	No	4	1,373.52	-	5,494.08	
6	Supply of Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC - 62305 part-3 Nominal size Ø10/16 mm aluminium rod: 2 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load. Tested as per IEC 62561.	No	2	1,950.54	-	3,901.08	
7	Supply for Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and clamp tested upto 100KA lightning current .	No	5	2,902.80	-	14,514.00	
8	Supply for Providing of Stand for Fang Fix system 16 kg made up of frost resistant concrete.	No	8	1,125.72	-	9,005.76	
9	Supply of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer. Tested for 100kA lightning current.	No	9	448.40	-	4,035.60	
10	Supply of IP 66 Poly Propylene Junction Box. Installation at 1Mtr Height For Test Joint .Internal dimensions: 100x100x48 mm	No	9	326.86	-	2,941.74	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
11	Supply of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor Hot Dipped Galvanized. Tested as per IEC 62561.	Mtr	54	318.60	-	17,204.40	
12	Supply for Providing of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate. Tested for 100kA lightning current.	No	12	297.36	-	3,568.32	
13	Supply of flat conductor holder- Fit: FL 30, With mounting hole 6.2 x 22 mm, With 2 cylinder bolts M6 x 16 and over-piece from hot-dip galvanised steel, Bottom section from polyamide, black. Tested as per IEC 62561.	No	16	307.98	-	4,927.68	
14	Supply for Providing of Plastic Corrosion Protection strip: Approx 1.1 mm thick. Width 50mm. Made of petrolatum- coated chemical fibre fabric.	No	2	1,037.22	-	2,074.44	
15	Supply of UL Listed maintenance free , Low carbon copper coated earth rod of 3 metre electrode having diameter of 17.2 mm with copper coating thickness of 250micron tested as per IEC 62561-2	No	4	4,935.94	-	19,743.76	
16	Supply of universal clamp made of SS to connect rod with flat conductor	No	4	1,046.66	-	4,186.64	
17	Supply of Earth conductivity enhancing mineral compound shall be of 25 kg/pit tested as per IEC 62561-7, TCPL tested	No	4	3,348.84	-	13,395.36	
18	Supply of The above arrangements shall be provided with Heavy duty earth champer of 5000kg load bearing capacity to ensure the safety of earthing system	No	4	2,559.42	-	10,237.68	
19	Installation of The above arrangements including all accessories as per Direction of Engg. In charge.	Job	1	17,560.76	-	17,560.76	
					-		
	FIRE FIGHTING				-		
1	FIRE FIGHTING -: Supplying, installation, testing and commissioning of Electric Motor Driven Pressurization Terrace Pump having discharge of 900 LPM at 35 Mtr head complete with Pump Set, Electric Motor suitable for operation on 415 V , 3 ph, 50 c/s AC supply . Base Frame.	No	1	95,167.00	-	95,167.00	
2	Supply, installation, testing and commissioning of Floor/Wall mounted sectionalised, front operated top entry dust and vermin proof M.V.Panel Boards suitable for operation at 415V, 3 phase, 4 wire, 50Hz distribution system fabricated out of 2.0 mm thick CRCA sheet, insulated busbar with heat shrienkable PVC sleeve, base frame, complete with all accessories including interconnections, earth bus etc as required comprising of One (1)- 63 Amp, 10 KA,TPN (Class-C) MCB with 3 Nos Phase Indicating lamps with control fuse/ MCB, Digital Voltmeter with selector switch. DOL starter with O/L and Single Phasing Preventor suitable for 7.5 HP motor. ON/OFF indication lamps, Auto manual switch and ON/OFF push button.as per direction of engineer in charge Control panel for fire pumps for auto action.	No	1	44,604.00	-	44,604.00	
3	SITC of FRLS, PVC outer sheateh, steel armoured, aluminium, 1100v grade power cables with glands etc. The minimum size of the cables shall as mentioned below as per direction of engineer in charge 3.5C x 16 mmsq	Rmt	70	359.90	-	25,193.00	
4	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardent Low Smoke)-PVC insulated GI Screened Armoured cable with saddle and required accessories.& Power Cable.	Rmt	30	158.12	-	4,743.60	
5	G.I. earthing strips of 25mm x 6mm thick, strip shall be run for PUMPS	Rmt	50	230.10	-	11,505.00	
B	PIPE & VALVES ETC.				-		
1	Supply,Installation,Testing & Commissioning of 'C' Class heavy duty MS pipe (as per IS 1239 upto 100 mm NB and IS 3589 for above 100 mm 6.33mm thick) with flanges and fitting such as bends, tees, reducers, rubber insertions and galvanized nuts and bolts of following size on surface along wall / shaft with MS bracket, suspended from ceiling/ beam with suspenders duly painted with two coats of primer and finished with enamel paint of approved colour laid through pipe or in trench after wrapping with hassan cloth after applying coal tar primer as required as per direction of Engineer-in- charge.				-		
A	100mm NB	Mtr	32	2,899.26	-	92,776.32	
B	80mm NB	Mtr	10	1,604.80	-	16,048.00	
	25mm nb	Mtr	4	729.24	-	2,916.96	
3	Providing, fixing, testing and commissioning of following size manually operated hand lever type cast iron double flanged slim seal wafer type Butterfly valves with EPDM iron disc as per IS-13095 having pressure rating PN -1.60 including fixing the same with supply of required jointing materials like rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of F.I.C.				-		
3.1	100mm NB	Nos	3	6,289.40	-	18,868.20	
4	Providing, fitting & fixing of following size cast iron double flanged type dual plate Non return Valve as per IS- 5312 (Part 1): 2004 with ISI mark of pressure rating PN-1.60 including fixing the same with supply of required jointing materials like flanges, rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of Engineer-in-charge.				-		
1	100mm NB	Nos	1	7,634.60	-	7,634.60	
5	Supply,Installation,Testing & Commissioning of Pressure gauge of 0-16 Kg/sq.cm. range with cut-off bronze ball valves of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	1	1,864.40	-	1,864.40	
6	Supply,Installation,Testing & Commissioning of Pressure Switch with cut-off bronze ball valves with integral strainer & flare nut (mixed ends) of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	1	3,740.60	-	3,740.60	
7	Supply,Installation,Testing & Commissioning of stainless steel strainer fabricated out of 1.6 mm thick stainless steel sheet Y Stainer with 3 mm dia hloes with stainless steel flange as required.				-		
1	100mm NB	NOS	1	10,502.00	-	10,502.00	
C	DOWN COMER SYSTEM				-		
1	Supply,Installation,Testing & Commissioning of Stainless steel Hydrant Valve / Landing valve, of 63 mm NB size, type-A, single headed , oblique type, as per IS :5290/93 and as per direction of Engineer-in-charge.	Nos	4	8,130.20	-	32,520.80	
2	Supply,Installation,Testing & Commissioning of SS short branch pipe with 63 mm male inlet and 19 mm outlet nozzle, as per IS:903 and as per direction of Engineer-in-charge.	Nos	4	2,808.40	-	11,233.60	
3	Supply,Installation,Testing & Commissioning of 63 mm NB and 15meter long RRL Fire Hose fitted with 63mm instantaneous stainless steel male & female SS coupling, complete by GI wire binding for Internal Hydrant as per direction of Engineer-in-charge.	Nos	4	6,926.60	-	27,706.40	
4	Providing supply & fixing of MS Hose Box for of suitable size(750X600X250mm) to accomodate 2 nos. of 15/ 1 no of 30 mtr long fire hose and a branch pipe, wall mounted type as per direction of Engineer-in-charge.	Nos	8	6,372.00	-	50,976.00	
5	Supply,Installation,Testing & Commissioning of Swinging pattern wall fixing first aid hose reel made from MS sheet and waterways and moving parts with rubber hose of 20 mm dia. and 30 mtrs. long with ABS(Plastic) shut-off nozzle as per IS: 12585 Type-I., complete with all accessories as per direction of Engineer-in-charge.	Nos	4	9,765.68	-	39,062.72	
6	Providing, fitting and fixing of C.I. 25 MM single air relief valve with stop cock confirming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of Engineer-in-charge.	Nos	2	1,699.20	-	3,398.40	
7	Providing, fitting & fixing of 2-Way GM fire brigade connection consisting of 63 mm dia instantaneous type male couplings with built-in check valves, 150mm dia flanged outlet complete with bolts, nuts and rubber insertions confirming to IS:904 with ISI mark including testing & commissioning the system etc. all complete as per approved specification & direction of FIC.	Nos	1	6,974.98	-	6,974.98	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
D	EXTINGUISHER SYSTEM				-		
1	Supply,Installation,Testing and Commissioning of ISI marked (IS:2878) Fire Extinguisher ,Carbon di-oxide type capacity 4.5kg with all accessories	Nos	8	9,086.00	-	72,688.00	
2	Supply,Installation,Testing and Commissioning of ISI marked (IS:2878) Fire Extinguisher ,ABC type capacity 6kg with all accessories	Nos	8	3,851.52	-	30,812.16	
3	Fire buckets (FILLED WITH SAND) round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos	3	5,000.84	-	15,002.52	
	Manual fire alarm system				-		
1	Manual Fire AlarmSystem:-Supply, installation, testing and commissioning of Conventional type Main Fire Alarm Control Panel (FACP), the panel shall be conventional type fire detection and alarm system with capacity of 4 zone complete with all accessories and battery back up for 48 hours in standby mode and 15 minutes in alarm condition. The panel shall have minimum of 80 character display complete accessories.	Nos	1	21,948.00	-	21,948.00	
2	Supplying, installing, testing and commissioning of conventional type Manual call point with all accessories complete.	Nos	4	1,687.40	-	6,749.60	
3	Supplying, installing, testing and commissioning of conventional type Hooter at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication with all accessories etc., complete.	Nos	4	2,100.40	-	8,401.60	
4	Supplying, installing, testing and commissioning of 2C x 1.5 sq. mm, Twisted Pair PVC insulated FRLS unarmored Cable with Accessories confirming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Rmt	90	115.64	-	10,407.60	
G	SIGNAGES				-		
1	SIGNAGES:-Providing and installing in position the following type of sign boards made out of 3mm thick flexyle photoluminescent based glow in dark sheeting with luminous properties enclosed in a weather proof Uvstabilized film with UV screen printing by imported links pasted over 3 mm thick cast acrylic from front side with 6 mm thick acrylic, -20 to +80 deg C, Suitable for indoor use, greenish yellow, glow visible upto 4-6 hr in total darkness.	Sqinch	240	21.24	-	5,097.60	
2	Illumination Glow light for Exit Indication with Battery Back-up.	Nos	8	6,726.00	-	53,808.00	
	ON GRID SOLAR SOLAR PV SYSTEM				-		
1	Supply Installation Testing and Commissioning of on grid Solar Photovoltaic Power Plant conforming to MNRE specifications as amended, consisting of Mono PERC HALF CUT bifacial Crystalline silicon solar cells, net metering facility ,necessary protections, earthing, mounted on hot dip GI structure(solar panel bottom height from roof level shall not be less than 300mm, accordingly GI structure to be designed) of suitable strength with following components a complete as arequred: a) Solar Photovoltaic Module of capacity 545Wp or above, manufactured in India, conforming to IS14286 / IEC61215, IS/IEC61730-Part-1,IS/IEC61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 22%. PV modules used in solar power plants /systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. b) Power Conditioning Unit (PCU) of 350 800 V DC Input voltage range and 400 V AC, three phase , 4 wire, 50Hz +/- 2.5Hz, output voltage suitable to generate AC Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree Celcius. The PCU shall adjust the voltage and frequency level to suit the Grid Voltage,frequency. c) Data Monitoring System complete with accessories.d)Fixing of Array junction box & Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugsand other accessories etc. asarequired.e) Lightning and surge voltage protection. f) Connections & Interconnections by supplying & fixing required size XLPE insulated copper conductor 1.1 kV grade armoured power and control cables between solar modules, main power cable to grid supply PCU unit along with supplying & fixing of necessary channel/ conduit lugs and other accessories etc. asrequired. with all required accessories as required as per the direction of Engg-in-charge. The entire SOLAR system should be Replacement Warranty will be 5 years	KW	4	71,390.00	-	2,85,560.00	
	ELV				-		
	Subhead- 1 (LAN System)				-		
1	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m, ETL Verified 4 connector channel performance up to 700 MHz , RoHS Compliant.	Mtr	1230	97.94	-	1,20,466.20	
2	SITC of Cat6 I/O with Dual Face plate: The Outlet shall meet or exceed requirement as per ANSI/TIA 568C.2,ISO/IEC 11801, & EN50173. The information outlet NEXT, PSNEXT, FEXT, ELFEXT, PSELFEXT and return loss should be verified for CAT6 @ 250Mhz & CAT6A @ 500Mhz. The information outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3af standard for POE application. The PVC material of Face plate should complie ABS /UL94-V-O certified.	Nos	30	1,195.34	-	35,860.20	
3	SITC of Cat6 I/O with Single Face plate: The Outlet shall meet or exceed requirement as per ANSI/TIA 568C.2,ISO/IEC 11801, & EN50173. The information outlet NEXT, PSNEXT, FEXT, ELFEXT, PSELFEXT and return loss should be verified for CAT6 @ 250Mhz & CAT6A @ 500Mhz. The information outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3af standard for POE application. The PVC material of Face plate should complie ABS /UL94-V-O certified.	Nos	20	808.30	-	16,166.00	
4	SITC of Cat 6, 24-port loaded, 1U Modular Jack Panel Should accommodate Cat6 with Rear Cable Management and Front removable Toolless Information outlet. Should have easy clip management with labels and clear label covers, Made with of Dicast Aluminium Alloy Material and Non Corrosive with Cat6 toolless RJ45 x 24 ports with color code front panel with patch cord locking.	Nos	6	11,585.24	-	69,511.44	
4	SITC of Cat6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100 Base-T and 1000-Base-T. Available In LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50µ" Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies.	Nos	36	403.56	-	14,528.16	
5	SITC of Cat6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100 Base-T and 1000-Base-T. Available In LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50µ" Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies.	Nos	36	480.26	-	17,289.36	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
6	SITC of 6 core Single mode OS2 Unitube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125µm. Outdoor Corrugated Steel tape Central loose tube. (Standard Approved: ISO 11801 2nd edition/ EN 50173-1:2002 / IEC 60794-1/IEC 60793-2-50 class B1.3 / EN 60793-2-50: class B1.3 / ITU Recommendation G.652.D - the other ITU designations A, B and C are also fulfilled / OS1/ISO/IEC 24702:2006, cat. OS2; also OS1 requirements are fulfilled/IEEE 802.3 - 2002 incl. 802.3ae) Jacket.	Mtr	240	145.14	-	34,833.60	
7	SITC of Rack mount Draw Type Loaded 6 port LIU available in Standard 19" ,Dimensions (mm) : 430 X 220 X 1U , Cold Rolled Steel as Raw Material , Consist of Top Cover and Bottom Panel , Easy to Assemble and Dissemble , Three Types of Input Holes Cable Entry Through Water Proof Cable Clamp , 12 Duplex SC or LC Adapter Interface , Splice 24 Fibers at Most with 1 Tray ,Adaptor, SM, Duplex SC, PC Type ,Pigtail, Support the TIA/EIA Telecommunication Wiring Standards. Compact Design , Telcordia GR-326-Core .	Nos	3	9,848.28	-	29,544.84	
7	SITC of 1G-LX/LH SFP transceiver module,SMF, 1310nm, 9/125 um Single mode Fiber Type up to 20 KM.	Nos	6	7,080.00	-	42,480.00	
39.6.3	10 G SFP + Single Mode/Multi Mode	Nos	2	14,972.00	-	29,944.00	
8	SITC of 24 Port Layer 2 PoE+ Switch having 24 x 10/100/1000 Mbps Ethernet PoE+ ports with 4 x 1/10Gig SFP+ ports ,1 x RJ45 port console port ,Switching Capacity 128 Gbps , Throughput 96 Mpps ,MAC Address 16k , Switch should support IEEE 802.3af (15.4W) & IEEE 802.3at (30W). Total PoE power: 370W or above , Switch should support DHCP server/relay/client, DHCP snooping/option82 , Switch should support Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON , TFTP, FTP, SFTP, NTP, ZTP, SPAN, RSPAN,Switch should support support ICMIPv6, DHCPv6, ACLv6 ,IPv6 Telnet ,Temperature 0°C -50°C ,Power Supply AC: 100-240V.	Nos	2	90,907.20	-	1,81,814.40	
39.5	Supplying, installation, Testing and commissioning of 10 Giga Bandwidth Data Centre Network Switch of 48 port Layer 3 having features and specifications etc. as mentioned here under: - ToR/EOR/Core Network Switch 48x 10GbE SFP+, 6x 100GbE QSFP28, RPS, with Console Port, Management Port and 1 x USB 2.0 Type A port, The switch must provide a switching capacity of no less than 2.16 Tbps and a forwarding rate of at least 1600 Mpps, ensuring non-blocking performance for high-bandwidth applications. It should support hot-swappable dual power supply modules (AC or DC) for 1+1 redundancy and load sharing, as well as hot-swappable, front-to-back airflow fan trays with N+1 redundancy to ensure continuous availability. IEEE 802.1X support for port-based and MAC-based authentication should be available, along with integration for RADIUS and TACACS+ authentication services. Guest VLANs, DoS prevention, and management access restrictions are essential. SNMP v1/v2c/v3, syslog, sFlow, and support for autoconfiguration via DHCP. Support for OpenFlow v1.4, Netconf/YANG, and LLDP is required for modern network automation. Support ONIE (Open Network Install Environment), IEEE 802.1Q bb Priority-based Flow Control (PFC), OpenFlow v1.4, ERPS, IPv6 Tunneling, IP interfaces and supported, VXLAN, Private VLAN, Multicast VLAN, Guest VLAN Double VLAN (Q-in-Q), RoCEv2, PIM-SSM/SM, MSDP. Support High Availability with MLAG/VSS and Layer 2/3 VPNs Critical for Multi-tenant, Virtualized, and Containerized Environments. BGPv4/v6, OSPFv2/v3, IS-IS, RIPvng. VRRP, ECMP, BFD, and route redistribution for high-availability routing. Support flexible routing domains and secure inter-segment traffic flow. Certifications: CE, FCC, MTCTE, OEM/Product must be on Trusted Telecom Portal of Department of Telecommunication, Government of India etc. complete as required.	Each	1	10,55,981.00	-	10,55,981.00	
9	SITC of 9U/500D Wall Mount Rack with Accessories: The rack size should be 600W x 500D, Front frame integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded, Compliance with standards shall be UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262 , IEC EN 60068-2-11 , ISO 9001:2008 including Power Distribution Unit (06/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Lengt), 1 cooling Fan(230V AC - 90 CFM, dB 42), 2nos 1U Metal Cable manager with Plastic cable loops and H/W screw.	Nos	2	13,257.30	-	26,514.60	
10	SITC of 24U 600/650D UL Listed Floor mount Rack with Front perforated door with 3 point lock, Rear mesh door with Cam lock and 3inch Castor Wheel included with 2 no 6/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Length, 4nos 1U Metal Cable manager with Plastic cable loops, 2nos CFM Fan set, 1no Monitor Tray - Ventilation 495W - 375D and H/W screw920sets).	Nos	1	48,527.50	-	48,527.50	
	Supplying and fixing of following sizes of HEAVY class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge .				-	-	
10	20 MM	Mtr	120	148.68	-	17,841.60	
12	25 MM	Mtr	150	151.04	-	22,656.00	
	Subhead- 1.a (IP-PBX System)				-		
1	Supplying and fixing of Hybrid EPABX system equipped with 20 Analog extensions and 6 Analog Trunk, including required hardware and software etc as reqd.	Set	1	59,472.00	-	59,472.00	
2	Supplying desktop telephone sets with colour ID as reqd	nos	18	1,416.00	-	25,488.00	
3	S/f of 50 pair MDF box with 3 nos. krone module.	nos	12	4,130.00	-	49,560.00	
4	S/f of 50 pair krone box with k2 no. krone module	nos	4	2,655.00	-	10,620.00	
5	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the surface/ recessed steel/ PVC conduit as required.				-		
5.1	2 Pair	Mtr	240	41.30	-	9,912.00	
5.2	20 Pair	Mtr	90	241.90	-	21,771.00	
	IP CCTV Surveillance System				-	-	
1	Supply, Installation, Testing & Commissioning of 5MP IP Network TDN Low-Light IR Fixed Lens Dome/Bullet Camera, 1/2.8" CMOS or better, 5MP (2592 x 1944) @ 25fps or better, triple stream at various resolution & Frame Rates, Min. Illumination required 0.007 lux (color), 0 Lux IR On, 2 IR LEDs, Smart IR with upto 50m IR distance, Auto ICR (Infrared Cut Filter) 120dB True WDR, S/N Ratio 50db, Shutter Speed 1/8 - 1/30,000; Advance Video Compression technology such as H.265, H.264 & MJPEG , Fixed Lens 2.8mm, Field of View FoV H:90°, V:62°, BLC, HLC, WDR, 3DNR, White Balance - Auto/Manual, Minimum Edge Intelligence Video Analytics : Video Motion Detection, Tampering, Loitering, Intrusion, & People Counting, 4 Privacy Mask, 8 Region Of Interest, Defog, HTTPS, IP Filter, TLS1.2, AES-128/256, SSH/Telnet closed, Stream Encryption, 2-Way Audio Full Duplex Line In/Out, 256GB SD card support, Alarm: 1In/1out, PoE (802.3 af) and 12V DC, Max 5W, IP 66/67 & IK10 with Die Cast Aluminium Housing, Having Operating temp range : -40°C to 60° C. Certifications: ONVIF Profile S/G/T compliant,, CE (EN 50130-4), FCC Part 15, EN 55032 & RoHS (EN63000)/NDA/STQC compliant.	Nos	10	24,100.32	-	2,41,003.20	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
2	Supply , Installation, testing , commissioning of 32 Channel NVR with 4 SATA; 384 Mbps incoming bandwidth, Up to 8 Megapixels Resolution Display and Recording, H.265 video compression technology with real time encoding, Full function CMS (Central monitoring software) supported, Two way audio supported, Dual streaming technology to encode recording stream and network stream separately, Supports remote monitoring on Mobile Client (Android, IOS), TCP / IP, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP, Time/ Date, Alarm, Motion Detection & Exact Search (accurate to second), Record Snapshot, FTP, Preset Calling, Email notification supported, Manual/ Alarm/ Motion Detection/ Continuous, CE, FCC, RoHS).STQC compliant	Nos	1	2,55,847.60	-	2,55,847.60	
3	Supply & Installation 10 TB Surveillance Hardisk.	Nos	1	29,327.72	-	29,327.72	
4	SITC of 55" UHD IPS Commercial Digital Display for Small Size Discussion & Chambers: Brightness (440 nits or higher), Dynamic Contrast Ratio (Dynamic MCI (Hz)):1000000:1, 1000000:1, Static (Panel) Contrast Ratio-1200:1, Response Time (G to G)-8 ms, Refresh Rate.-60 Hz, Life span (hrs)-30,000, Speaker (Sound Output):10W + 10W, Speaker System: 2.0 ch, DVB-T2/C Broadcasting System, Commercial Smart UX, webOS version (webOS 6.0), BIS Certification with 3 years onsite warranty.	Nos	1	1,10,793.74	-	1,10,793.74	
	PA SYSTEM				-	-	
5	Supply of 20 Watt Indoor Horn Speaker, IP65, Frequency Response : 150 Hz – 15 kHz, 4 INCH DRIVER, peak power handling capacity 80W, Should have Passive 350 Hz high-pass filter built-in, SPL : 133 dB peak @ 1.4 kHz, IP-65 rating per IEC529, Coverage Pattern: 60° horizontal by 80° vertical , Maximum SPL (1m): 109dB peak, 8 ohm Impedence, Transformer Taps: 70V/100V: 20W, 100V: 30 w.	Nos.	10	21,901.98	-	2,19,019.80	
6	Supplying, installing, testing and commissioning of quad channel Power amplifier of continous power 4x 240 W @8 ohm and 100V, frequency response- 50Hz-20 kHz , class D amplifier.The amplifier should be clean reliable audio for public address amplification and music.Line input less than 1 volt, unbalanced& line output less than 1 volt unbalanced.	Nos	1	1,69,359.50	-	1,69,359.50	
7	Supply of 30 W weather proof rock speaker with LMT, IP65 , Transformer Taps: 70V/100V: 20W, 100V: 30 w	Nos	6	18,876.46	-	1,13,258.76	
8	Supply of 10-Channel Mixing Console: Max. 4 Mic / 10 Line Inputs (2 mono + 1 stereo) / 4 GROUP Buses + 1 Stereo Bus / 4 AUX (incl. FX),16-Channel Mixing Console mic preamps with an inverted Darlington circuit,1-Knob compressors,High-grade effects: SPX with 24 programs,24-bit/192kHz 2in/2out USB Audio functions,Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter,Includes Cubase AI DAW software download version,PAD switch on mono inputs,+48V phantom power,XLR balanced outputs with provision for bluetooth.	Nos.	2	32,208.10	-	64,416.20	
9	SITC of 17U 600/650D UL Listed Floor mount Rack with Front perforated door with 3 point lock, Rear mesh door with Cam lock and 3inch Castor Wheel included with 2 no 6/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Length, 4nos 1U Metal Cable manager with Plastic cable loops, 2nos CFM FAN set, 1no Monitor Tray - Ventilation 495W - 375D and H/W screw920sets).	No.	2	27,800.80	-	55,601.60	
10	Speaker Cable Armoured 2 core 2.5 sqmm PVC Sheathed etc complete as required.	Mtr	200	226.56	-	45,312.00	
11	Laying of cable (Digging , laying and refilling with sand and Bricks)	Mtr	200	575.84	-	1,15,168.00	
12	Installation of all equipment, testing and commissioning of the system	Job	1	68,965.10	-	68,965.10	
	External LIGHT SYSTEM				-		
1	S/F of Street light- 90W,120 lm/w efficacy ,IP PC Lens new generation energy saving & environmental friendly long life versatile pressure die-cast aluminium IP66 roadway luminaire with high power LED as light source with acrylic cover (5Years Warranty)	Sets	10	9,624.08	-	96,240.80	
2	Supply of 6 mtr long hot dip Galvanized PU Painted Octagonal pole manufactured from HT steel(single arm) as per BS EN 10025/IS 2062 having minimum yield strength of 350 N/ SQMM having top dia of 70 MM A/F and bottom dia of 130 MM A/F of 3 mm thick or more , base plate as per IS 2062 complete with 4 nos. En 8 grade foundation bolts to withstand basic wind speed of 180 KM/HR wind speed (As per structural calculation of pole manufacturer for more (of Approved Make) as per direction of Engg. in Charge.	Sets	10	17,239.80	-	1,72,398.00	
3	Installation of pole by making the suitable size foundation by embedding the pole into the ground with necessary civil work and fixing the light on the pole equivalent make ISI marked as approved as per direction of Engg. in Charge.	Sets	10	5,310.00	-	53,100.00	
4	Supplying, Erection, Fixing, connection & testing of LED BOUNDARY WALL Light of elegant look 35 W LED street light having die cast aluminium housing with toughened glass having lumen efficacy of 110 lm/w or more (As per LM 79 report of third party NABL lab) ,IP 65 protection or more , LED street light model having warrantied for a period of 5 years . The luminaire should be supplied along with bracket maintenance free for inspection as required as per direction of Engg.-in-Charge.	Sets	8	3,800.78	-	30,406.24	
5	Supplying, Erection, Fixing, connection & testing of Panasonic 40 LED GATE Light of maintenance free having 2 years warranty G.I P ipe with braket including MCB box & including with foundation as per the Drawing for inspection as required & as per direction of Engg.-in-Charge.	Sets	2	11,973.46	-	23,946.92	
6	S/IT/C of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.	Nos	3	7,670.00	-	23,010.00	
7	Supplying,laying of 3cx2.5 sq.mm copper flexible cable with insulated cover of reputed make,ISI marked with all other concerned materials as per direction of Engg.-in-Charge. Necessary test report & Warmaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials.	Mtr	50	129.80	-	6,490.00	
8	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	50	177.00	-	8,850.00	
	CABLING				-	-	
9	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge.				-	-	
	4core x 16 sq mm	Mtr	120	359.90	-	43,188.00	
10	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cushioning protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	120	185.26	-	22,231.20	
11	Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.				-	-	
	4core x 16 sq mm	Nos	10	273.76	-	2,737.60	
	AV SYSTEM				-		
1	SITC of 5200 ANSI Lumens, 3 LCD system Laser Projector with 16:10 Aspect Ratio, WUXGA (1920X1200 Pixels) Resolution. Contrast Ratio 3,000,00:1, Lens 1.6x manual zoom. With mounting bracket.	Nos	2	4,13,000.00	-	8,26,000.00	
2	SITC of imported allmost seamless join, screen size 18' X 32', microperforated fabric, completed aluminium frame screen with a velvet covered.	Nos	2	2,71,400.00	-	5,42,800.00	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
3	SITC of loudspeaker which provides a high quality high performance speaker system for behind the screen home theatre systems.The loudspeaker incorporates true point source technology and is a 2-Way passive loudspeaker containing a 1" exit compression driver assembled in a coaxial configuration along with a 12" LF driver providing a conical 90° opening. 12" (308 mm) Low Frequency Driver and 1.5" (38 mm) High Frequency Driver. High performance coaxial driver. 90° conical dispersion. High SPL. Smooth frequency response on and off axis. Frequency Response 65Hz to 20kHz. Power Rating 400W AES, 1600W peak. Sensitivity 98dB 1W/1m. Maximum SPL 124dB continuous, 130dB peak @1m. Finish: Black impact resistant structured coating.	Nos	4	1,48,940.78	-	5,95,763.12	
4	SITC of High power and high sensitivity 2 x 10" (250 mm) woofer. 100° vertical control Only 12" (300 mm) depth for in wall installation.It is designed to be an inwall or onwall subwoofer system where powerful low frequency extension and ease of integration is the prime criteria. Frequency Response 38Hz to 500Hz. Power Rating 500W AES, 2000W peak. Sensitivity 95.5dB @ 1W/1m. Maximum SPL 122dB continuous, 128dB peak @ 1m. Nominal Impedance 4Ω. Dispersion 180° horizontal, 100° vertical @ 400Hz. Transducers 2 x 10" (250 mm) long throw weather resistant woofer.	Nos	2	1,05,964.00	-	2,11,928.00	
5	SITC of 2-Way Cinema Surround Speaker System, designed to reproduce faithfully the wide dynamic range and extended frequency response to meet today's immersive audio formats. Frequency Response 65Hz to 20kHz. Power Rating 100W AES, 400W peak. Sensitivity 93.5dB @ 1W/1m. Maximum SPL 113.5dB continuous, 119.5dB peak @ 1m. Nominal Impedance 8Ω. Low Frequency Driver 8" (200 mm) Mid-Bass drive. High Frequency Driver 1" (25 mm) Dome tweeter. Crossover 2.5kHz Passive, low loss air core inductors and MKP capacitors. Finish Black impact resistant structured coating. Connector Push type binding post, cable upto 4 mm diameter.	Nos	10	33,366.86	-	3,33,668.60	
6	SITC of a 4 channel power amplifier specially designed for today's competitive multiplex environments. The robust bipolar outputcircuit combines clean power with superb dynamics and can accurately drive a variety of speaker systems.Frequency response 30Hz - 20kHz, +0.2dB. Total Harmonic Distortion + Noise <0.01% 20Hz - 20kHz @ 8Ω. Inter modulation Distortion <0.03% SMPTE @ 8Ω. Signal to Noise Ratio -94 dB Damping factor >100 @ 8Ω. Cross-talk -90dB. Slew Rate >10V/μs. Input Sensitivity 1.4V (+4dB). Input Impedance 20kΩ, balanced. Voltage Gain 32dB. Bandwidth 100 kHz.	Nos	2	1,39,594.00	-	2,79,188.00	
7	SITC of Premium 7.2 Channel AV Receiver Powered by HEOS™ with Dolby Atmos, 100W, 8K and 6 HDMI Inputs,100 Watts per Channel,HEOS Built-in.	Nos	2	1,77,295.00	-	3,54,590.00	
8	SITC of 2 core 4 s0mm speaker Cables.	Mtr	220	306.80	-	67,496.00	
9	SITC of 2 core 6 s0mm speaker Cables.	Mtr	200	767.00	-	1,53,400.00	
10	SITC of 20mtr HDMI cable	Nos	2	17,700.00	-	35,400.00	
11	SITC of required connectors	Bulk	2	8,260.00	-	16,520.00	
12	SITC of 9U AV rack	Nos	2	17,700.00	-	35,400.00	
					TOTAL	6,01,62,326.88	42,22,402.91
				GRAND TOTAL (ACADEMIC BUILDING)		6,43,84,729.79	

02 nos. of 50 bedded Hostels of Boys & Girls Students							
Bill of Quantities							
Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	CIVIL WORK						
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush,shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
	Ground Floor	Cum	616.361	359.782		2,21,755.60	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.						
	Ground Floor	Cum	410.907	197.916		81,325.18	
3	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) over 100mm bed of dry brick ballast 40 mm nominal size well rammed, consolidated and grouted and fine sand and finishing the top smooth in proper slop including all complete						
	Ground Floor	Cum	38.893	816.310		31,748.41	
4	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-charge.						
	Ground Floor	sqm	498.977	835.546		4,16,918.09	
5	Pre-Construction Anti-termite treatment to your site with Imdachloprid 30.5 SC or chloropyrifos 20% EC as per IS 6313 Part-III (2013) revision including all materials and Labour cost etc.						
	Ground Floor	Cum	676.020	123.310		83,360.06	
6	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring, shuttering etc. complete all depth and height.						
	Ground Floor	Cum	60.764	6763.076		4,10,953.72	
	RCC WORK						
7	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 25 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.						
	(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.						
	Ground Floor	Cum	105.012	8073.571		8,47,818.17	
	R.C.C. Plinth Beam						
	Ground Floor	Cum	22.180	9100.578		2,01,852.82	
	(B)R.C.C. Column &Roof Beam						
	Ground Floor						
	Column	Cum	17.486	19003.810		3,32,300.39	
	Beam	Cum	28.260	19003.810		5,37,054.80	
	First Floor						
	Column	Cum	11.670	21399.574		2,49,734.63	
	Beam	Cum	29.574	21399.574		6,32,862.98	
	Second Floor						
	Column	Cum	11.543	24267.166		2,80,103.76	
	Beam	Cum	31.878	24267.166		7,73,588.71	
	Terrace						
	Column	Cum	2.475	27700.549		68,558.86	
	Beam	Cum	2.970	27700.549		82,270.63	
	(C) R.C.C. Slab						
	Ground Floor	Cum	27.678	16626.127		4,60,177.20	
	First Floor	Cum	33.710	18551.054		6,25,360.39	
	Second Floor	Cum	32.562	20853.898		6,79,050.88	
	Terrace	Cum	2.816	23608.781		66,488.23	
	(D)R.C.C. Staircase						
	Ground Floor	Cum	3.071	18849.077		57,878.45	
	First Floor	Cum	3.071	21214.227		65,140.94	
	Second Floor	Cum	3.613	24045.197		86,863.27	
	Terrace	Cum	3.613	27434.067		99,105.57	
	(E)R.C.C. lintel						
	Ground Floor	Cum	5.084	17104.671		86,966.67	
	First Floor	Cum	2.903	19124.390		55,515.35	
	Second Floor	Cum	3.415	21540.841		73,564.66	
	Terrace	Cum	0.434	24432.289		10,609.72	
	(F)R.C.C. Fins						
	Ground Floor	Cum	11.539	1485.370		17,139.31	
	First Floor	Cum	14.187	1690.622		23,984.00	
	Second Floor	Cum	16.690	1936.470		32,319.69	
	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-in-charge Cold Twisted bars, Thermo-Mechanically-treated bars.						
	Ground Floor	Qntl	330.505	10744.105		35,50,983.42	
	First Floor	Qntl	117.749	10783.559		12,69,756.65	
	Second Floor	Qntl	144.936	10824.985		15,68,934.07	
	Terrace	Qntl	20.873	10868.483		2,26,858.52	
	BRICK WORK						
	First class fly ash brick masonry using bricks of size 20cm. x 12 cm. x 6 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
9	Ground Floor	Cum	13.540	6643.423		89,951.03	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
10	First class fly ash brick masonry using bricks of size 230mm x 120mm x 60mm having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super structure including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	78.561	6688.653		5,25,467.52	
	First Floor	Cum	80.669	7129.206		5,75,107.70	
	Second Floor	Cum	94.905	7642.624		7,25,323.23	
	Terrace	Cum	23.775	8233.096		1,95,737.74	
11	First class fly ash brick masonry using bricks of size 230mm x 120mm x 60mm having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:4) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super structure including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	1.343	6961.626		9,346.50	
	First Floor	Cum	2.685	7402.194		19,876.00	
	Second Floor	Cum	3.159	7915.663		25,005.58	
	FINISHING WORK						
12	12mm cement plaster with water proofing compound mix on external RCC/brick surfaces in cement plaster 1:6 (1 cement : 6 coarse sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (External Surface)						
	Ground Floor	Sqm	268.943	225.333		60,601.77	
	First Floor	Sqm	229.745	234.524		53,880.63	
	Second Floor	Sqm	270.288	244.174		65,997.42	
	Terrace	Sqm	122.545	254.308		31,164.12	
13	16mm cement plaster with water proofing compound mix on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	823.196	325.064		2,67,591.15	
	First Floor	Sqm	609.598	333.320		2,03,191.16	
	Second Floor	Sqm	717.174	341.824		2,45,147.28	
	Terrace	Sqm	105.103	350.583		36,847.34	
14	Providing 6mm thick cement plaster in RCC surfaces including deep chipping and slurry treatment at all floors at all height with cement mortar of mix (1:4) with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours and scaffolding required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.						
	Ground Floor	Sqm	207.093	252.323		52,254.23	
	First Floor	Sqm	159.775	258.787		41,347.70	
	Second Floor	Sqm	140.951	265.446		37,414.80	
	Terrace	Sqm	11.088	272.304		3,019.31	
	FLOORING WORK						
15	Providing and fixing 20mm thick Granite stone flooring (sample or Granite stone should be approved by Engineer-In-Charge) for stair case trade, riser and similar locations where ever required in horizontal/vertical surfaces of required size of approved shade, colour and texture, with moulding edge etc. laid over 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch ups including rubbing, curing, moulding and polishing to give high gloss finish etc. complete as per direction of Engineer-in-charge. In all floors and all heights.						
	Ground Floor	Sqm	38.454	3719.033		1,43,011.69	
	First Floor	Sqm	34.830	3754.228		1,30,758.26	
	Second Floor	Sqm	40.976	3791.183		1,55,347.51	
	Terrace	Sqm	40.976	3829.985		1,56,937.48	
16	Providing and laying Vitrified floor tiles 600x600 mm (thickness to be specified by the manufacturer) 1st quality of ,approved make, colours & shades laid on 20 mm thick cement mortar 1:4 (1cement: 4coarse sand) including pointing the joints with white cement and matching pigments, etc. complete as per direction of Engineer-In-Charge at all floors and all heights.						
	Ground Floor	Sqm	172.349	1348.838		2,32,471.34	
	First Floor	Sqm	103.137	1364.735		1,40,755.09	
	Second Floor	Sqm	121.338	1381.427		1,67,619.65	
17	Supplying, fitting & fixing of Vitrified Skirting tiles of premium grade having thickness 8mm to 10mm confirming to IS 13755 of size 60cm x 60cm coloured/printed series in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Ground Floor	Sqm	21.434	1508.463		32,332.44	
	First Floor	Sqm	15.484	1628.104		25,208.91	
	Second Floor	Sqm	18.216	1653.220		30,115.05	
18	Providing, fitting and fixing Vitrified industrial floor tile of size 300x300 mm of approved make conforming to IS: 13755 laid on 20 mm thick cement mortar 1:4 (1 cement: 4 course sand) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc required for the work all complete as per direction of Engineer-In-Charge (for New work only)						
	Ground Floor	Sqm	34.743	1249.156		43,399.73	
	First Floor	Sqm	16.671	1265.054		21,089.56	
	Second Floor	Sqm	19.613	1281.746		25,138.63	
19	Supplying, fitting & fixing of 30cm x 20cm/20cm x 20cm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753 in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Ground Floor	Sqm	66.851	1171.468		78,313.54	
	First Floor	Sqm	72.614	1195.387		86,801.62	
	Second Floor	Sqm	85.428	1220.503		1,04,265.15	
20	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
	Ground Floor	Sqm	10.630		2613.877		27,786.66
	First Floor	Sqm	16.671		2613.877		43,575.63
	Second Floor	Sqm	19.613		2613.88		51,265.45
	BUILT IN JOINERIES						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
21	Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.						
	Ground Floor	Rmt	48.663		850.733		41,398.78
	First Floor	Rmt	57.630		850.733		49,027.73
	Second Floor	Rmt	67.800		850.733		57,679.68
	Terrace	Rmt	5.200		850.733		4,423.81
22	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with 1 mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete						
	Ground Floor	Sqm	15.708		12588.960		1,97,747.38
	First Floor	Sqm	18.207		12588.960		2,29,207.19
	Second Floor	Sqm	11.340		12588.960		1,42,758.80
	Terrace	Sqm	2.100		12588.960		26,436.82
23	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thickcompactd with wood grain finish structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-I(ISI marked) size 100mm are to be fitted on one side of shutter.						
	Ground Floor	Sqm	4.016		4845.387		19,460.28
	First Floor	Sqm	5.040		4845.39		24,420.75
	Second Floor	Sqm	6.300		4845.387		30,525.94
24	Supplying, fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame. shutters and all Fitting and fixtures etc. complete as per direction of Engineer-in-charge at all floors and all heights.						
	Ground Floor	Sqm	34.385		5853.945		2,01,284.96
	First Floor	Sqm	32.780		5853.945		1,91,893.77
	Second Floor	Sqm	38.565		5853.945		2,25,757.37
25	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kq	859.613	405.212		3,48,325.30	
	First Floor	Kq	819.506	405.212		3,32,073.77	
	Second Floor	Kq	964.125	405.212		3,90,675.02	
	PAINT WORK						
26	Providing & Applying priming one coat with Cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	1169.309	94.872		1,10,934.68	
	First Floor	Sqm	849.250	97.246		82,586.30	
	Second Floor	Sqm	1128.413	99.692		1,12,493.26	
	TERRACE	Sqm	238.736	102.210		24,401.29	
27	Texture Paint :Providing and applying two coats unitle's in approved shade on a smooth cement sand plaster. The composition of the texture paint should consist of Acrylic Copolymer Resigns combined with Quartz, Silica,mineral aggregates, synthetic inorganic pigments, bactericide, fungicides and various other additives,giving the product water repellent properties. The first coat to be applied by brush or wool roller as a base coat, diluted with sufficient water and the final coat applied undiluted with trowel and then finished with acrylic trowel to obtain the specified grooves.The thickness of both coats should be 1.0 to 1.5 mm. The water repellency of the product is 86gm/m2 as per test method IS: 5410-1969.						
	Ground Floor	Sqm	228.602		481.440		1,10,058.09
	First Floor	Sqm	229.745		481.440		1,10,608.34
	Second Floor	Sqm	270.288		481.440		1,30,127.45
	TERRACE	Sqm	122.545		481.440		58,998.06
28	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	875.745	100.501		88,012.94	
	First Floor	Sqm	653.967	102.739		67,187.74	
	Second Floor	Sqm	858.125	105.044		90,140.93	
	TERRACE	Sqm	116.191	107.419		12,481.07	
29	Preparing surrace and painting at air height with two or more coats of interior Plastic Emulsion ", of approved shade as per the instructions of the manufacturers; giving uniform shade etc in all heights of walls etc. including interior wall primer & providing scaffolding, cleaning, curing and supply of all materials and labour complete as per drawing, design and direction of Architect/Engineer-In-Charge at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	875.745	122.366		1,07,161.47	
	First Floor	Sqm	653.967	124.962		81,720.99	
	Second Floor	Sqm	858.125	127.614		1,09,508.59	
	TERRACE	Sqm	116.191	130.345		15,144.94	
30	Providing & Painting with synthetic enamel paint of approved brand and manufacture to give an even shade as per the instruction of Engineer-In-Charge at all floors and all heights including all material & labour complete at all floors and all heights.						
	Second Floor	Sqm	19.283	215.719		4,159.59	-
	S.S Railing						
31	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kq	119.673	405.212		48,492.88	
	First Floor	Kq	119.673	405.212		48,492.88	
	Second Floor	Kq	140.792	405.212		57,050.45	
	TERRACE	Kq	140.792	405.212		57,050.45	
	Waterproofing Treatment :-						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
32	Providing and laying water proofing compound on vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIRD course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).						
	First Floor	Sqm	152.902		908.128		1,38,854.66
	Second Floor	Sqm	111.341		908.13		1,01,111.70
	Waterproofing Treatment :- Terrace Roof Top Surface.						
33	Providing and installing two component acrylic modified cementitious waterproofing coating with masterseal 551/Equivalent over roof slab after carrying out pond test on roof slab filling all defects, saturating the surface mixing the products and then application in 2 mm thickness (1.8kg/sqm coverage rate for 1mm thickness) in suitable layers complete in all respect, all materials, tools,plant & labour complete in all respect. (Approved rate for MPH building SI no-05)						
	TERRACE	Sqm	604.000		548.228		3,31,129.71
34	Providing and laying grading conc. 25 mm (avg. thickness) cement concrete of required slope of mix 1:2:2 (1cement:2sand:2 graded stone aggregate of 10 mm nominal size) mixed with approved water proof compound as per manufacturer's specification on top of slab including cement slurry, all complete, including the cost of water proofing admixture, which should be approved by the Engineer-In-Charge prior to material procurement by the contractor.						
	TERRACE	Sqm	604.000		81.101		48,984.93
	G.R.C. JALI						
35	Providing and fixing glass reinforced concrete (G.R.C) Screens in approved size, pattern, design, shade and thickness of 50mm on frame and design element in 30mm thick have weight approximately between 3.5 - 4 kg per sq.ft. and color of M/S Unistone make or equivalent. The above weight and having at least 50% void space. The screens should be made from 53 grade white portland cement manufactured by N.E.G JAPAN or equivalent, super plasticizers manufactured by BASF or equivalent, polymers manufactured by BASF or equivalent and U.V resistant synthetic inorganic pigments should be used for pigmentation manufactured by BAYFERROX (Germany) or equivalent.MAKE : SAMUDYAM/ECOVISION/BIRLA						
	Ground Floor	Sqm	11.430		9526.140		1,08,884.68
	First Floor	Sqm	9.764		9526.140		93,014.70
	Second Floor	Sqm	13.514		9526.140		1,28,740.07
	TERRACE	Sqm	6.127		9526.140		58,369.04
36	MARMOPLAST NATURAL along with grooves (brick pattern crafted in texture) : Providing and laying weather and Ultraviolet Resistant, Water Repellent, Dust, Dirt, Stain Resistant, Fungus and Algae Resistant natural non pigmented texture (95 to 98% natural crushed stone dust/powder and 2 to 5% other pigments) of approved make with final coat of texture with stone chips to derive the approved petit texture pattern (attainable thickness: 0.70 to 0.90mm to offer grooved finish) applied with trowel over a coat of texture without chips (attainable thickness: 0.70 to 0.90mm to offer smooth surface as base coat) over a coat of exterior water repellent masking primer & repair check with cement & primer over a coat of acrylic primer mixed with wall sealer in the ratio of 1:1 complete as approved by Engineer-in-charge. After all coat of texture a special siloxane resin based to be done with sponge to be burnt brick look alike.						
	Ground Floor	Sqm	11.430		1038.400		11,869.01
	First Floor	Sqm	9.764		1038.40		10,139.10
	Second Floor	Sqm	13.514		1038.400		14,033.35
	TERRACE	Sqm	6.127		1038.400		6,362.54
	INTERNAL P.H. & SANITARY WORK. :-						
1	GPH Works: Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor pvc pipes conforming to ASTM-D- 1785/89 (Sch-80) and pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor, testing all complete as per specification and direction of the Engineer-in-charge.						
a)	Ground floor						
	15 mm CPVC (sdr-13.5) pipes	Mtr	15.000	195.408		2,931.12	
	20 mm CPVC (sdr-13.5) pipes	Mtr	65.000	268.922		17,479.93	
	25 mm CPVC(sdr-13.5) pipes	Mtr	65.000	351.050		22,818.25	
	32 mm CPVC sdr-13.5 pipes	Mtr	45.000	505.748		22,758.66	
	40 mm CPVC sdr-13.5 pipes	Mtr	45.000	702.454		31,610.43	
	50 mm UPVC sch-80 pipes	Mtr	25.000	791.662		19,791.55	
b)	First floor					-	
	15 mm CPVC (sdr-13.5) pipes	Mtr	25.000	195.408		4,885.20	
	20 mm CPVC (sdr-13.5) pipes	Mtr	50.000	277.654		13,882.70	
	25 mm CPVC(sdr-13.5) pipes	Mtr	65.000	360.372		23,424.18	
	32 mm CPVC sdr-13.5 pipes	Mtr	60.000	516.722		31,003.32	
	40 mm CPVC sdr-13.5 pipes	Mtr	45.000	716.496		32,242.32	
	50 mm UPVC sch-80 pipes	Mtr	45.000	808.65		36,389.43	
c)	Second floor					-	
	20 mm CPVC (sdr-13.5) pipes	Mtr	25.000	287.21		7,180.30	
	25 mm CPVC(sdr-13.5) pipes	Mtr	50.000	370.52		18,526.00	
	32 mm CPVC sdr-13.5 pipes	Mtr	65.000	528.88		34,376.94	
	40 mm CPVC sdr-13.5 pipes	Mtr	60.000	731.95		43,917.24	
	50 mm UPVC sch-80 pipes	Mtr	45.000	827.42		37,233.72	
2	supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking G.I. Pipes and fittings/ P.V.C. pipes and fittings etc. all complete as per P.H. specification and direction of Engineer-in-charge.					-	
a)	Ground Floor :- 250 mm thick wall	Each	3.000	82.60		247.80	
b)	First Floor :- 250 mm thick wall	Each	3.000	82.60		247.80	
c)	Second Floor :- 250 mm thick wall	Each	4.000	82.60		330.40	
3	Supplying all materials, labour, T&P and cutting hole in R.C.C floors, roofs, etc upto 19 cm thick for passing G.I. Pipes / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof as per direction of the Engineer-in-charge.					-	
a)	Ground Floor :- 250 mm thick wall	Each	2.000	256.53		513.06	
b)	First Floor :- 250 mm thick wall	Each	2.000	256.53		513.06	
c)	Second Floor :- 250 mm thick wall	Each	2.000	256.532		513.06	
4	Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking G.I./P.V.C. pipes and making good the damages as per direction of the E.I.C.					-	
a)	Ground Floor	Mtr	5.000	283.436		1,417.18	
b)	First Floor	Mtr	10.000	283.436		2,834.36	
d)	Third Floor	Mtr	25.000	283.436		7,085.90	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge					-	
a)	Supplying all materials, labour, T&P and fixing standard sized two way Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP Two way bib cock with Flange	Each	11.000	1209.972		13,309.69	
b)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia. nominal bore Long body Bib Cock	Each	16.000	1,471.22		23,539.58	
c)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia. nominal bore Short body Bib Cock	Each	18.000	1,209.97		21,779.50	
d)	Supplying all materials, labour, T&P and fixing standard sized 15mm dia angular Stop cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP angle stop cock with wall flange	Each	18.000	1,209.97		21,779.50	
e)	Supplying all materials, labour, T&P and fixing standard sized pillar cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge. 15mm dia brass pillar cock Cat	Each	3.000	1,471.22		4,413.67	
f)	Fixing of 25mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 32mm dia brass or gun metal full wav valve	Each	3.000	1,095.28		3,285.83	
g)	Fixing of 32mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 32mm dia brass or gun metal full wav valve (shakti make)	Each	3.000	1,603.50		4,810.51	
h)	Fixing of 40mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge. 40mm dia brass or gun metal full wav valve (shakti make)	Each	3.000	2,035.85		6,107.56	
	15mm dia PVC connection pipe 450 mm long	Each	18.000	40.12		722.16	
	15mm dia CP Extension Nipple	Each	17.000	69.97		1,189.56	
i)	Providing and fixing circular type stainless steel jalli (grating) with hole for floor /nahani trap etc complete as per specification and direction of the Engineer in charge.	Each	20.000	104.31		2,086.24	
6	Supplying all materials, labour, T&P and fixing Health Faucet of . complete with Chromium plated brass brackets fixed to wooden plugs with Chromium plated brass screws as per specification and direction of the Engineer-In-Charge.					-	
	15mm dia CP Health Faucet of . 1.2mtr long, 8MM dia ..	Each	11.000	1611.998		17,731.98	
7	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.					-	
a)	In Building					-	
	110mm diameter U-PVC SWR pipes	Mtr	30.000	541.38		16,241.52	
	110mm U-PVC door Tee	Each	12.000	455.48		5,465.76	
	110mm U-PVC offset	Each	6.000	480.73		2,884.39	
	110mm U-PVC door bend	Each	8.000	346.45		2,771.58	
	110mm U-PVC plain shoe bend	Each	12.000	273.76		3,285.12	
	110mm U-PVC vent cowl	Each	10.000	68.68		686.76	
	110mm P-trap	Each	15.000	586.81		8,802.21	
	110mm U-PVC plain bend	Each	12.000	273.76		3,285.12	
	100mm S/S coupling with EPMD	Each	10.000	431.05		4,310.54	
8	Supplying all materials, labour T&P and cutting holes through existing brick or laterite masonry wall for taking H.C.I pipes and fittings including making good the damages etc. all complete as per P.H. Specification and direction of the Engineer-In-Charge.					-	
	250mm to 375mm thick wall	Each	10.000	248.51		2,485.08	
9	Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern of . with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle, unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and connecting the inlet pipe with supply main etc all complete as per the specification and direction of the Engineer-in-charge.					-	
	10 Liters capacity PVC cistern with 32mm dia flush bend. sleek fresh single flush Starwhite.	Each	11.000	14,878.62		1,63,664.82	
10	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C. pan) of . with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of the Engineer-In-Charge.					-	
	EWG with 'p' / S trap plain	Each	11.000	6790		74,690.00	
11	Supplying all materials, labour T&P and fixing wash basins of with hole for pillar taps with cast iron or M.S. brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, etc all complete as per specification and direction of the Engineer-In-Charge.					-	
		Each	1.000	10185.406		10,185.41	
12	Countersunk Wash Basin					-	
	Supplying all materials, labour T&P and fixing counter sunk Wash Basin Size - 545mmx545x180mm, Cat.No. FLS-WHT-29601 with all fittings as per direction of the engineer-in-charge.	Each	15.000	8071.554		1,21,073.31	
13.00	Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of the Engineer-in-charge.					-	
	750mmx600mm size B.E. mirror	Sqm	6.8	791.19		5,340.53	
14.00	Supplying all materials, labour, T&P and fixing standard size glass-shelf Glass-Shelf with Chromium Plated brass brackets and guard rails complete, fixed to wooden plugs with Chromium Plated brass screws					-	
	glass shelf 600mm long	Each	16.0	1,900.51		30,408.13	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
15.00	Supplying all materials,labour, T&P and fixing standard sized CP towel ra-il 24" of . complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer-In-Charge					-	
	25mmx600mm long CP towel rail	Each	19.0	1,811.65		34,421.43	
16.00	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated brass towel ring complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge	Each	15.0	827.65		12,414.78	
17.00	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated soap case of . complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge					-	
	CP soap holder	Each	21.0	754.96		15,854.24	
18.00	Supplying all materials, labour, T&P and fixing standard sized Robe Hook of . complete with all as per specification and direction of the Engineer in charge.	Nos	11.0	1,022.59		11,248.47	
19.00	Supplying all materials, labour, T&P and fixing standard sized Soap Dispensor of . complete with all as per specification and direction of the Engineer in charge. Soap dispense with Glass Bottle.	Nos	21.0	1,567.98		32,927.66	
20.00	Providing and fixing Salem Stainless steel A ISI (18/8) Kitchen sink as per IS : 13983 Kitchen Sink Double Bowl with Round Waste Coupling	Nos	1.0	19,363.80		19,363.80	
21.00	Supply all materials, labour, T&P and providing fitting & fixing RO cum Cooler-cum-Purifier Storage Capacity-80lts With-in-built purifier (UV Based). all complete as per approved drawing, specification and direction of the EIC.	Nos	1.0	1,47,559.00		1,47,559.00	
22.00	Supplying all materials, labour, T&P and fixing 100 mm dia wall mounted over head shower & Shower arm . including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineer-in-charge. 100 mm dia CP overhead shower with Arm	Nos	11.0	2,816.66		30,983.26	
23.00	Supplying all materials, labour, T&P and fixing standard sized 15mm dia Single lever Concealed Deusch mixer with provision for connection to overhead shower only of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. Concealed stop cock	Each	11.0	3,019.86		33,218.42	
24.00	Fixing Rotational moulded Poly Propelene double layer cylindrical vertical water storage tanks confirming to IS 12701-1996 including cutting holes through the tank and fixing mild steel tubes and fitting and providing extra sockets and jam nuts, fixing ball valve etc,including hosting upto a height of 5 mtr above ground level and placing the tank to the required postion etc all complete as per specification and direction of the Er-in-charge					-	
	5000 ltr capacity Double layer cylindrical vertical water storage tanks	Each	1.0	82,883.54		82,883.54	
	EXTERNAL P.H. & SANITARY WORK. :					-	
25.00	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.					-	
	250mmx250mm with RCC cover	Each	4.0	1,681.38		6,725.53	
26	Supplying all materials, labour, T & P and constructing Inspection chamber of the following inside size with CC (1:3:6) mix using 40mm size h.g. metal on bed, 1st class Fly Ash brickwork in CM (1:6) , moulding and shaping the channel inside and benching with CC (1:2:4) using 12mm size h.g. chips, 12mm thick cement plastering (1:3) finished with punning to inside , cement flush pointing (1:3) to outside , R.C.C. cover slab in (1:2:4) using 12mm size h.g. chips with RCC man hole cover , earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering ,curing, conveyance of all materials to worksite , payment of royalty , taxes etc. all complete as per aproved drawing , specification and direction of Engineer-in-charge.					-	
	Inside size 760mm x760mm x450mm	Each	4	10,581.41		42,325.66	
27	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplastitized PVC pipes conforming to IS: 4985/2000 of the following outside dia for class 3(0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer-in-charge.					-	
a)	110mm dia u-pvc pipe alround concrete	mtr	20	1,260.59		25,211.88	
b)	160mm dia u-pvc pipe alround concrete	mtr	20	2,042.11		40,842.16	
28	Supplying all materials, labour, T&P and constructing Man hole chamber of the following size with cement concrete (1:3:6) using 40 mm size HG metal on bed , 1st class Fly Ash Brick work in CM (1:6) moulding and shaping the channel inside and benching with CC (1:2:4) mix using 12 mm size H.G chips, 12 mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside ,RCC cover slab in (1:2:4) mix using 12 mm size H.G chips with RCC man hole cover , earth work in all kinds of soil and refilling the cavity around the camber including watering, curing, conveyance of all materials to worksite payment of royalty, taxes etc. all completed as per approved drawing, specification and direction of Engineer-in-charge.					-	
a)	Inside size 900mmx900mmx900mm	each	2	20,040.88		40,081.77	
b)	addl depth of 0.30m upto 4.50m depth	each	2.0	3,259.99		6,519.97	
29	Supplying all materials, labour, T&P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe,earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer-In-Charge					-	
a)	RCC rings soakway pit 1.22m dia x 2.0m deep	each	1	24,017.48		24,017.48	
30	Supplying all materials, labour, T&P and constructing soakway pit of the following size with dry brick walling from bottom upto invert of inlet pipe and 1st class K.B brickwork in cement mortar (1:6) for the remaining height at top, cement concrete (1:4:8) using 40mm size hg chips on bed, 12mm thick cement plaster (1:4) inside and outside over masonry brickwork, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge					-	
	Brick masonrv soakway pit 1.20m dia x 2.00m deep	each	1	21,740.44		21,740.44	
	BOREWELL					-	
	Sinking of 200 mm dia (8") Gravel Packed Production Well including saline sealing where necessary through Rotary Drilling Rig 300 Mtrs with PVC/ GI Casing Pipes					-	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
31	Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level in alluvial soil strata by Mud Rotary Rig drilling as required to suit the site condition as per the direction of Engineer-in-Charge including use of own rigs with its accessories, tools and plant and consumables etc for lowering of finished bore suitable for lowering of 200 mm dia GI/PVC pipes for housing, fitted with socket and with or without well screen as per the necessity for the soft, medium, hard and boulder formation (GI/PVC casing pipes if required by the contractor to prevent collapse of over burden portion) including lower and withdrawing of casing pipe after drilling 200 mm to 450 mm dia in over burden portion.					-	
(I)	00 mtrs. to 100 Mtrs.	Mtr	80	2,029.95		1,62,396.32	
(II)	100 mtr. to 200 Mtrs	Mtr	15	2,449.68		36,745.20	
(III)	200 Mtrs to 300 Mtrs. and above	Mtr	9	2,778.78		25,009.04	
32	Supply of all labour & T&P for lowering the following size G.I./PVC pipes with or without slotted pipes as per the necessity from ground level and fitted and fixed up in perfectly vertical position, including cutting and threading pipe and slotted pipe and fixing all jointing materials etc. complete and keeping the top of the casing pipe threaded including plugging tube wells to prevent entry of foreign materials from above excluding cost of fittings & jointing materials					-	
	00 mtrs. to 300 Mtrs.	Mtr	100	135.35		13,534.60	
33	Cleaning and developing the production well using their own compressor continuously worked till clear and adequate discharge is obtained from the tube well including supply and use of all necessary equipment and labour as per the direction of Engineer-in-Charge.	Each	1	34,979.57		34,979.57	
34	Supplying all labour, tools and plant and grouting with cement bentonite slurry for saline sealing in the bore around the 200mm dia P.V.C. Casing pipe etc all complete as per the direction of the Engineer-in-Charge. (Excluding the cost of Cement.)	Each	1	4,207.64		4,207.64	
35	Supplying all labour,T&P and materials for packing the bore with washed gravel (size P-6) around the pipes in good quality excluding cost of gravel etc complete as per the direction of the Engineer-in-Charge.	Each	1	1,343.19		1,343.19	
36	Supplying all materials labour and T&P and grouting with cement slurry for sanitary sealing around the GI/PVC casing pipe up to 3 mtrs. Below ground level including cost of cement all complete as per the direction of Engineer-in-Charge	Each	1	4,989.04		4,989.04	
37	Supplying all materials, labour, tools and plant and withdrawing casing pipe from the unsuccessful bore and depositing in the departmental store in good condition.	Mtr	100	135.35		13,534.60	
						-	
	Cost of 200 mm dia PVC Pipe	mtr	90	2,095.21		1,88,568.72	
	Cost of cement	qtl	6	647.55		3,885.29	
	Cost of sand 75m	cum	2	267.86		535.72	
	washed gravel	cum	2	931.96		1,863.93	
	Cutting slots in casing pipe	mtr	8	578.20		4,625.60	
	SEPTIC TANK. (100 USER)					-	
38	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works up to and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.	cum	52.7715	359.78		18,986.24	
39	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15 cm in depth : consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge	cum	35.356905	197.92		6,997.70	
40	Supplying of filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of E.I.C.	cum	4.6908	682.22		3,200.14	
41	Providing and laying plain cement concrete 1:3:6 (1 cement:3 sand: 6 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curing, shuttering etc. complete all depth and height.	cum	2.3454	6,182.40		14,500.20	
42	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	cum	3.922	8,658.77		33,959.69	
43	Providing, lifting, hoisting and laying Reinforced cement concrete of M-250 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.					-	
	a) Base	cum	3.924	7,499.37		29,427.53	
	b) Wall/Beam	cum	8.57225	18,429.61		1,57,983.22	
	Septic tank					-	
	c) Slab	cum	2.788495	16,051.93		44,760.72	
44	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-In-Charge.Cold Twisted bars, Thermo-Mechanically-treated bars.	Qntl	15.284745	10,744.10		1,64,220.90	
	Fly Ash bricks Masinary (1:6) (in F & P).					-	
45	First class Fly Ash Brick masonry using F.A. bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.	cum	1.2025	6,600.49		7,937.09	
	12 mm Plastering.					-	
46	12mm cement plaster on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including neat cement punning & necessary scaffolding, curing etc. all complete at all floors and all heights.	Sqm	84.0308	248.24		20,859.52	
	16 mm Plastering.					-	
47	Providing 16mm. thick cement plaster in all floors at all height with cement mortar of mix (1:6) with OPC 53 grade cement finished smooth to inside smooth surface of brick masonry walls after racking out the joints including watering and curing, rounding of corners etc. complete with cost, coveyance, loading and unloading, royalties and taxes of all materials and cost of all labours, sundries, T&P and scaffolding required for the work etc. complete in all respect as desired by the Engineer in charge.	Sqm	7.956	322.30		2,564.18	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
48	Supplying all materials, labour, T&P and providing , fitting & fixing 100mm x100mm x100 mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.	Each	2	459.26		918.51	
49	Supplying all materials ,labour, T&P and making MS STEP IRON IN 20MM diameter MS steel bars & fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	5	317.66		1,588.28	
	INTERNAL ELECTRICAL						
A	Sub-Head I (modular Wiring Items)					-	
1	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked with 20 mm dia HMS FRLS PVC conduit ISI marked 6A modular type (flame retardant type) switch ISI marked and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (flame retardant type) of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. . All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials..Each lightpoint should have provision for ceiling rose and angle holder point. In all the rooms there shall be two types of switchboard- one for raw and the other one for emergency. The inverter switchboard shall include atleast one fan, one light and one 6A emergency socket.					-	
a)	GROUP-A	Nos	120	726.88		87,225.60	
a-1)	GROUP-B	Nos	100	1,078.52		1,07,852.00	
a-2)	GROUP-C	Nos	80	1,525.74		1,22,059.20	
B	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)((flame retardant type)) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	60	231.28		13,876.80	
c)	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 2 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	100	650.18		65,018.00	
d)	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(For equipement power)All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	32	810.66		25,941.12	
e)	Supplying,fixing of 2x6A Plug on the separate board with complete fitting by 02 no of 6A switch & socket(modular type) ((flame retardant type) with suitable size modular box & metallic cover plate (both side)((flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power)(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	20	1,406.56		28,131.20	
f)	Supplying,fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 nos 6A switch & socket(modular type) (flame retardant type) with suitable size modular box & metallic cover plate (both side)((flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power). (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials.	Nos	6	2,356.46		14,138.76	
2.a)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (2X1.5+1X1.5)	Mtr	340	187.62		63,790.80	
b)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit. (2X2.5+1X1.5)	Mtr	900	204.14		1,83,726.00	
c)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit (2X4+1X1.5)	Mtr	420	225.38		94,659.60	
d)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty conduit . (2X6+1X2.5)	Mtr	200	261.96		52,392.00	
e)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 6 sq. mm copper wire for phase and neutral and 02 nos of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit (4X6+2X4)	Mtr	90	376.42		33,877.80	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
f)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 10 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit .(LFDB TO FLOOR PANEL TO TPN BDB power) (4X10+2X6)	Mtr	80	526.28		42,102.40	
3	Supplying and fixing 32 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge.. . ISI marked as approved, All the Components should be warranted for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.(for kitchen)	Nos	1	3,835.00		3,835.00	
4	Supplying and installation of AC Point having 16-20A DP MCB, C series with enclosure, of suitable size as required as per direction of Engg.-in-Charge .All the Components should be warranted for a replacement period of 1 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	8	2,655.00		21,240.00	
5	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover.Make- Havells/Anchor as required as per direction of Engg.-in-Charge.All the Components should be warranted for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	2	252.52		505.04	
6	S/F of Bakelite angle holder/batten holder of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge .All the Components should be warranted for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	each	40	89.68		3,587.20	
7	S/F of 5 step type Modular electronic Fan Regulator ISI Marked with all connection complete in all respect as per direction of Engineer in charge	Each	54	441.32		23,831.28	
B	Sub-Head II (Light fitting Fixture & Fan)					-	
1	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & conntection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	8	3,693.40		29,547.20	
2	Supplying, installation, of exhaust fan of heavy duty 380 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & conntection .as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	4	4,343.58		17,374.32	
3	Supplying, installation, testing and commssioning of 1200 mm sweep Copper wound BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,Replacement Warranty will be 4 years.	Nos	54	4,394.32		2,37,293.28	
4	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	240	1,109.20		2,66,208.00	
5	Supplying an fixing of recess/surface mounted 2'x2' 36 W (595mmx595mmx70mm) square shaped LED with lumen efficacy not less than 130lm/W, CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%,internal surge protection of 3 KV, complete with Non integrated isolated electronic driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation)and all other accessories suitable for operation on140- 270 V, 50 Hz ,L70 @50,000 burning hrs (5 years warranty) as required as per direction of Engg.-in-Charge. The luminaire must be Replacement Warranty will be 5years.	Nos	20	4,414.38		88,287.60	
7	SITC of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 2 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years .	Nos	40	859.04		34,361.60	
8	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	14	514.48		7,202.72	
9	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as requiredas required as per direction of Engg.-in-Charge . (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)of ISI mark as approved.	Nos	54	38.94		2,102.76	
c)	BDBS,DB,AC DB,FLOOR PANELS,MCBS					-	
1	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 3 years					-	
a)	8Way(8+(8x3)) Way TPN MCB DD 7 Segment DB Horizontal Type as per IEC 61439-3 with configuration of Incoming 1-8 modules,sub incommmer-12 module & out going-24 modules,suitable for Flush mounting and Surface mounting with Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door Warranty on DB is 3 years	Nos	6	7,706.58		46,239.48	
b)	Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) Warranty on DB is 3 years	Nos	4	3,375.98		13,503.92	
c)	2+4 way MCB Enclosure DB (GLAZED door)Warranty on DB is 3 years	Nos	1	1,993.02		1,993.02	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
d)	4 Way(8+(3x4)) Way TPN MCB DD 7 Segment DB Horizontal Type as per IEC 61439-3 with configuration of incoming I-8 modules, sub incoming-12 module & outgoing-12 modules, suitable for Flush mounting and Surface mounting with Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IP09 with metal door Warranty on DB is 3 years	Nos	4	5,341.86		21,367.44	
2	Supplying and fixing 6-32 amps rating, 240 volts, C series, 10KA breaking capacity, Double poles MCB of in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. .Warranty on MCB is 1 years.	Nos	2	900.34		1,800.68	
3	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, 10KA breaking capacity, single poles MCB of the existing MCB DB complete with connections as per direction of Engg.-in-Charge. .Warranty on MCB is 1 years.	Nos	320	378.78		1,21,209.60	
4	Supplying and fixing 40 Amps rating, C series, 10KA breaking capacity, 2P, 240 volts, RCCB 30mA . in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. . The RCCB should be Replacement Warranty will be 1 year	Nos	12	3,111.66		37,339.92	
5	Supplying and fixing 63Amps 2P 240 volts RCCB 30 mA in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 1 year	Nos	16	3,465.66		55,450.56	
6	Supplying and fixing 40Amps 4P 415 volts, MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 1 years	Nos	16	2,555.88		40,894.08	
7	Supplying and fixing 63Amps rating, C series, 10KA breaking capacity, 4P 415 volts MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge..The MCB should be Replacement Warranty will be 1 years.	Nos	6	3,027.88		18,167.28	
d)	(Earthing) INSTALLATION					-	
1	Supplying, installation, testing & commissioning Of Earthing with copper earth plate 600 mm x 600mm x 6 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc (WITH charcoal and salt) as required as per direction of Engg.-in-Charge.	Nos	1	21,309.62		21,309.62	
2	Supplying, installation, testing & commissioning of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge	Nos	2	7,670.00		15,340.00	
3	Providing and fixing SWG 6 GI wire on surface or in recess for loop earthing as required as per direction of Engg.-in-Charge. (to be used for Street Light)	Mtr	30	34.22		1,026.60	
4	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	60	177.00		10,620.00	
5	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge. Main LT ROOM dg panel earthing	Mtr	12	1,320.42		15,845.04	
6	Providing and fixing 50mm x 6 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	12	377.60		4,531.20	
e)	CABLING AND END TERMINATION MAIN AREA					-	
1	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials					-	
	3.5core x 120 sq mm	Mtr	120	1,428.98		1,71,477.60	
	4core x 16 sq mm	Mtr	50	359.90		17,995.00	
	3.5core x 35 sq mm	Mtr	80	501.50		40,120.00	
2	LAYING OF CABLE					-	
2.1	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cushioning protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	5	185.26		926.30	
2.2	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cushioning protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	200	210.04		42,008.00	
2.8	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shackle and screw etc as required as per direction of Engg.-in -charge.	Mtr	60	123.90		7,434.00	
	4 core x16sq mm	Nos	8	273.76		2,190.08	
	3.5 core x35 sq mm	Nos	12	479.08		5,748.96	
	3.5 core x120 sq mm	Nos	2	623.04		1,246.08	
	3.5core x 70 sq mm	Nos	0	555.78		-	
4	Providing, fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.					-	
a)	50 mm dia	mtrs	3	529.82		1,589.46	
5	Providing, fixing and laying of following dia HDPE pipe (medium class) in ground complete with fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.					-	
a)	200 mm dia	mtrs	30	1,021.88		30,656.40	
f)	PANELS					-	
	MAIN CONTROL PANEL AT GF					-	
1	S/I/T&Commissioning of CPRI tested LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint followed by 9 tank acid treatment is designed as G.A drawing as per direction of Engg.-in-Charge. Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list. 60X10MM Separate Aluminium Earth bus bar should be installed. All the Major feeders shall have ON/OFF/TRIP indication.	Set	2	1,94,187.88		3,88,375.76	
26.1	Online UPS - Input supply: Single Phase, Output Supply : Single Phase					-	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	Supplying, installation, Testing & Commissioning of following capacity at full load (Unity Power Factor) ON LINE Uninterrupted Power Supply (UPS) system suitable for Single Phase input, Single Phase output AC Supply. The UPS shall include a Rectifier, inverter, battery bank suitable for 30 minutes back up (Battery VAH capacity shall not be less than 1600 VAH per KVA of UPS rating per Hour backup time) on full load (Battery shall be VRLA, SMF in ABS Container) and Static Bypass switch along with provision for manual bypass, suitable isolation transformer for additional protection against neutral faults etc. The UPS systems shall be Microprocessor based Digital Control, using Insulated Gate Bipolar Transistor (IGBT)'s both for the rectifier & inverter with PWM (Pulse Width Modulation) Technology. The quality of design, manufacturing and inspection process should confirm to the relevant Inter-national standards such as IEC/EN/VDE. The operating efficiency of the UPS systems shall be >95% at 100% non-linear loads. Current total harmonic distortion (ITHD)/ total demand distortion (TDD) on the input grid shall be < 5% at 100 %load. (The required LC filters shall be included in UPS cost), extreme power factor kit to be include to limit the input pf to 0.99 and output power factor shall be unity (i.e. kw rating of the UPS shall be kva rating x 1) however UPS shall be suitable to take load at 0.7 lagging to 0.7 leading power factor loads. UPS shall be suitable for incoming supply AC single phase 160-270V 50 Hz and delivering output AC supply true sine wave single phase 220/230/240 Volt, 50 Hz +/- 0.2Hz, Overload capacity of 120% for 10 mins and 150% for 1 minute.						
	Operating temperature 0 to 40 deg C, Relative humidity 0-95% non condensing, noise level less than 60db at 1 meter distance, Protection for Under voltage, over voltage, abnormal output voltage, battery over charging, output over current, short circuit, battery deep discharge , 10 KV surge. Display for watt/VA,Amp and Voltage power parameters etc. UPS shall comply with low voltage electromagnetic compatibility (EMC) achieved as per EN 6204, EN6204 Part 1 and Part 2, it shall be a Voltage and Frequency Independent (VFI) type UPS (as per standard IEC 62040-1, 2 & 3) . The UPS should be with IGBT Based Inverter Technology, Communication RS232/RS485/SNMP port open protocol for BMS integration as per approved by Engineering in charge. Required battery racks, DC breaker of suitable rating and interconnecting copper conductor cable of suitable size and connectors and all required accessories are inclusive in the cost. The UPS should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location etc						
26.1.1	2 KVA	Each	2	54,154.92		1,08,309.84	
	CABLE TRAY and Conduit						
1	Supplying,fixing of perforated cable trays with horizontal & vertical bends,reducers ,tees,crossover,brackets & other accessories as required confirming to IS-IEC -61537 ,the cable tray shall be galvanised for corrosion protection confirming to DIN EN 10346/ISO 1461. Size 60mm(H) x 200mm(W) of The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications as required as per direction of Engg.-in-Charge.	mtrs	30	713.90		21,417.00	
2	Supplying,fixing of perforated cable trays with horizontal & vertical bends,reducers ,tees,crossover,brackets & other accessories as required confirming to IS-IEC -61537 ,the cable tray shall be galvanised for corrosion protection confirming to DIN EN 10346/ISO 1461. Size 60mm(H) x 300mm(W) . The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications as required as per direction of Engg.-in-Charge.	mtrs	20	814.20		16,284.00	
	Conduit for CCTV, Wi-Fi etc.						
3	Supplying and fixing of following sizes of HEAVY class PVC FRLS conduit ISI marked along with accessories in surface/recess making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge .						
3.1	20 MM	Mtr	80	148.68		11,894.40	
3.2	25 MM	Mtr	60	151.04		9,062.40	
	Lightning Protection						
1	Lightning Protection :- Supply of 8 mm Aluminum Round Conductor.Tested as per IEC 62561. as per direction of engineer in charge.	Mtr	180	175.82		31,647.60	
2	Supply of Roof conductor holder for parapet- Polyamide Conductor holder:With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder.Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance.Tested as per IEC 62561. as per direction of engineer in charge.	No	80	60.18		4,814.40	
3	Supply of Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance. Tested as per IEC 62561.	No	14	234.82		3,287.48	
4	Supply of Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Tested as per IEC 62561.(2nos/expansion piece).	No	12	239.54		2,874.48	
5	Supply of 1 mtr vertical air terminal with mounting accessories on the flat surface to meet the requirements of IS/IEC 62305. Tested for Electrical , mechanical and chemical as per IEC 62561. Tested for 100kA lightning current.	No	6	1,373.52		8,241.12	
6	Supply of Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC -62305 part-3 Nominal size Ø10/16 mm aluminium rod: 2 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load. Tested as per IEC 62561.	No	8	1,950.54		15,604.32	
7	Supply for Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and clamp tested upto 100KA lightning current .	No	8	2,902.80		23,222.40	
8	Supply for Providing of Stand for Fang Fix system 16 kg made up of frost resistant concrete.	No	6	1,125.72		6,754.32	
9	Supply of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer. Tested for 100kA lightning current. Make-OBO/Dehn/ABB	No	4	448.40		1,793.60	
10	Supply of IP 66 Poly Propylene Junction Box. Installation at 1Mtr Height For Test Joint .Internal dimensions: 100x100x48 mm	No	4	326.86		1,307.44	
11	Supply of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor Hot Dipped Galvanized. Tested as per IEC 62561.	Mtr	120	318.60		38,232.00	
12	Supply for Providing of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate. Tested for 100kA lightning current.	No	12	297.36		3,568.32	
13	Supply of flat conductor holder- Fit: FL 30, With mounting hole 6.2 x 22 mm, With 2 cylinder bolts M6 x 16 and over-piece from hot-dip galvanised steel, Bottom section from polyamide. black. Tested as per IEC 62561.	No	14	307.98		4,311.72	
14	Supply for Providing of Plastic Corrosion Protection strip: Approx 1.1 mm thick. Width 50mm. Made of petrolatum- coated chemical fibre fabric.	No	2	1,037.22		2,074.44	
15	Supply of UL Listed maintenance free ,Low carbon copper coated earth rod of 3 metre electrode having diameter of 17.2 mm with copper coating thickness of 250micron tested as per IEC 62561-2	No	6	4,935.94		29,615.64	
16	Supply of universal clamp made of SS to connect rod with flat conductor	No	6	1,046.66		6,279.96	
17	Supply of Earth conductivity enhancing mineral compound shall be of 25 kg/pit tested as per IEC 62561-7,TCLP tested	No	6	3,348.84		20,093.04	
18	Supply of The above arrangements shall be provided with Heavy duty earth champer of 5000kg load bearing capacity to ensure the safety of earthing system	No	6	2,559.42		15,356.52	
19	Installation of The above arrangements including all accessories as per Direction of Engg. In charge.	Job	1	17,560.76		17,560.76	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
1	FIRE FIGHTING -: Supplying, installation, testing and commissioning of Electric Motor Driven Pressurization Terrace Pump having discharge of 450 LPM at 35 Mtr head complete with Pump Set, Electric Motor suitable for operation on 415 V , 3 ph, 50 c/s AC supply . Base Frame.	No	2	77,266.40		1,54,532.80	
2	Supply, installation, testing and commissioning of Floor/Wall mounted sectionalised, front operated top entry dust and vermin proof M.V.Panel Boards suitable for operation at 415V, 3 phase, 4 wire, 50Hz distribution system fabricated out of 2.0 mm thick CRCA sheet, insulated busbar with heat shrinkable PVC sleeve, base frame, complete with all accessories including interconnections, earth bus etc as required comprising of One (1)- 63 Amp, 10 KA,TPN (Class-C) MCB with 3 Nos Phase indicating lamps with control fuse/ MCB, Digital Voltmeter with selector switch. DOL starter with O/L and Single Phasing Preventor suitable for 7.5 HP motor. ON/OFF indication lamps, Auto manual switch and ON/OFF push button.as per direction of engineer in charge Control panel for fire pumps for auto action.	No	2	44,604.00		89,208.00	
3	SITC of FRLS, PVC outer sheath, steel armoured, aluminium, 1100v grade power cables with glands etc. The minimum size of the cables shall as mentioned below as per direction of engineer in charge 3.5C x 16 mmsq	Rmt	80	359.90		28,792.00	
4	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardant Low Smoke)-PVC insulated GI Screened Armoured cable with saddle and required accessories.& Power Cable.	Rmt	80	158.12		12,649.60	
5	G.I. earthing strips of 25mm x 6mm thick, strip shall be run for PUMPS	Rmt	60	230.10		13,806.00	
B	PIPE & VALVES ETC.					-	
6	Supply,Installation,Testing & Commissioning of 'C' Class heavy duty MS pipe (as per IS 1239 upto 100 mm NB and IS 3589 for above 100 mm 6.33mm thick) with flanges and fitting such as bends, tees, reducers, rubber insertions and galvanized nuts and bolts of following size on surface along wall / shaft with MS bracket, suspended from ceiling/ beam with suspenders duly painted with two coats of primer and finished with enamel paint of approved colour laid through pipe or in trench after wrapping with hassen cloth after applying coal tar primer as required as per direction of Engineer-in- charge.					-	
A	100mm NB	Mtr	80	2,899.26		2,31,940.80	
B	80mm NB	Mtr	14	1,604.80		22,467.20	
	25mm nb	Mtr	10	729.24		7,292.40	
7	Providing, fixing, testing and commissioning of following size manually operated hand lever type cast iron double flanged slim seal wafer type Butterfly valves with EPDM iron disc as per IS-13095 having pressure rating PN -1.60 including fixing the same with supply of required jointing materials like rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of F.I.C					-	
	100mm NB	Nos	4	6,289.40		25,157.60	
8	Providing, fitting & fixing of following size cast iron double flanged type dual plate Non return Valve as per IS- 5312 (Part 1): 2004 with ISI mark of pressure rating PN-1.60 including fixing the same with supply of required jointing materials like flanges, rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of Engineer-in-charge.					-	
	100mm NB	Nos	2	7,634.60		15,269.20	
9	Supply,Installation,Testing & Commissioning of Pressure gauge of 0-16 Kgf/sq.cm. range with cut-off bronze ball valves of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	2	1,864.40		3,728.80	
10	Supply,Installation,Testing & Commissioning of Pressure Switch with cut-off bronze ball valves with integral strainer & flare nut (mixed ends) of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	2	3,740.60		7,481.20	
11	Supply,Installation,Testing & Commissioning of stainless steel strainer fabricated out of 1.6 mm thick stainless steel sheet Y Stainer with 3 mm dia hoes with stainless steel flange as required.					-	
	100mm NB	NOS	2	10,502.00		21,004.00	
C	DOWN COMER SYSTEM					-	
12	Supply,Installation,Testing & Commissioning of Stainless steel Hydrant Valve / Landing valve, of 63 mm NB size, type-A, single headed , oblique type, as per IS :5290/93 and as per direction of Engineer-in-charge.	Nos	6	8,130.20		48,781.20	
13	Supply,Installation,Testing & Commissioning of SS short branch pipe with 63 mm male inlet and 19 mm outlet nozzle, as per IS:903 and as per direction of Engineer-in-charge.	Nos	6	2,808.40		16,850.40	
14	Supply,Installation,Testing & Commissioning of 63 mm NB and 15meter long RRL Fire Hose fitted with 63mm instantaneous stainless steel male & female SS coupling, complete by GI wire binding for Internal Hydrant as per direction of Engineer-in-charge.	Nos	10	6,926.60		69,266.00	
15	Providing supply & fixing of MS Hose Box for of suitable size(750X600X250mm) to accomodate 2 nos. of 15/ 1 no of 30 mtr long fire hose and a branch pipe, wall mounted type as per direction of Engineer-in-charge.	Nos	6	6,372.00		38,232.00	
16	Supply,Installation,Testing & Commissioning of Swinging pattern wall fixing first aid hose reel made from MS sheet and waterways and moving parts with rubber hose of 20 mm dia. and 30 mtrs. long with ABS(Plastic) shut-off nozzle as per IS: 444/IS: 12585 Type-I., complete with all accessories as per direction of Engineer-in-charge.	Nos	6	9,765.68		58,594.08	
17	Providing, fitting and fixing of C.I. 25 MM single air relief valve with stop cock conforming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of Engineer-in-charge.	Nos	2	1,699.20		3,398.40	
18	Providing, fitting & fixing of 2-Way GM fire brigade connection consisting of 63 mm dia instantaneous type male couplings with built-in check valves, 150mm dia flanged outlet complete with bolts, nuts and rubber insertions conforming to IS:904 with ISI mark including testing & commissioning the system etc. all complete as per approved specification & direction of FIC.	Nos	2	6,974.98		13,949.96	
D	EXTINGUISHER SYSTEM					-	
19	Supply,Installation,Testing and Commisioning of ISI marked (IS:2878) Fire Extinguisher ,Carbon di-oxide type capacity 4.5kg with all accessories	Nos	4	9,086.00		36,344.00	
20	Supply,Installation,Testing and Commisioning of ISI marked (IS:2878) Fire Extinguisher ,ABC type capacity 6kg with all accessories	Nos	4	3,851.52		15,406.08	
21	Fire buckets (FILLED WITH SAND) round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos	2	5,000.84		10,001.68	
	Manual fire alarm system					-	
22	Manual Fire AlarmSystem::Supply, installation, testing and commissioning of Conventional type Main Fire Alarm Control Panel (FACP), the panel shall be conventional type fire detection and alarm system with capacity of 4 zone complete with all accessories and battery back up for 48 hours in standby mode and 15 minutes in alarm condition. The panel shall have minimum of 80 character display complete accessories	Nos	2	21,948.00		43,896.00	
23	Supplying, installing, testing and commissioning of conventional type Manual call point with all accessories complete. The device	Nos	6	1,687.40		10,124.40	
24	Supplying, installing, testing and commissioning of conventional type Hooter at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication with all accessories etc., complete.	Nos	6	2,100.40		12,602.40	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
25	Supplying, installing, testing and commissioning of 2C x 1.5 sq. mm, Twisted Pair PVC insulated FRLS unarmored Cable with Accessories confirming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Rmt	400	115.64		46,256.00	
G	SIGNAGES					-	
26	SIGNAGES:-Providing and installing in position the following type of sign boards made out of 3mm thick flexyle photoluminescent based glow in dark sheeting with luminous properties enclosed in a weather proof Uvstabilized film with UV screen printing by imported links pasted over 3 mm thick cast acrylic from front side with 6 mm thick acrylic, -20 to +80 deg C, Suitable for indoor use, greenish yellow, glow visible upto 4-6 hr in total darkness	Sqinch	100	21.24		2,124.00	
27	Illumination Glow light for Exit Indication with Battery Back-up.	Nos	10	6,726.00		67,260.00	
					TOTAL	2,82,94,384.79	30,25,936.44
				GRAND TOTAL (HOSTELS)		3,13,20,321.24	

04 nos of Single Staff Quarter							
Bill of Quantities							
Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
CIVIL WORK							
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush,shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
	Ground Floor	Cum	493.169	359.782		1,77,433.51	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge						
	Ground Floor	Cum	328.780	197.916		65,070.79	
3	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) over 100mm bed of dry brick ballast 40 mm nominal size well rammed, consolidated and grouted and fine sand and finishing the top smooth in proper slop including all complete						
	Ground Floor	Cum	28.050	816.310		22,897.49	
4	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-charge						
	Ground Floor	sqm	281.607	835.546		2,35,295.24	
5	Pre-Construction Anti-termite treatment to your site with Imidachloprid 30.5 SC or chloropyrifos 20% EC as per IS 6313 Part-III (2013) revision including all materials and Labour cost etc.						
	Ground Floor	Cum	154.423	123.310		19,041.89	
6	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone agregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, currina, shuttering etc. complete all depth and height.						
	Ground Floor	Cum	42.366	6763.076		2,86,525.82	
RCC WORK							
7	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 25 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.						
	(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.						
	Ground Floor	Cum	98.639	8073.571		7,96,369.75	
	R.C.C. Plinth Beam						
	Ground Floor	Cum	16.892	9100.578		1,53,728.39	
	(B)R.C.C. Column &Roof Beam						
	Ground Floor						
	Column	Cum	7.574	19003.810		1,43,925.36	
	Beam	Cum	8.606	19003.810		1,63,551.54	
	First Floor					-	
	Column	Cum	4.957	21399.574		1,06,081.97	
	Beam	Cum	10.089	21399.574		2,15,901.91	
	Terrace					-	
	Column	Cum	1.800	27700.549		49,860.99	
	Beam	Cum	2.970	27700.549		82,270.63	
	(C) R.C.C. Slab						
	Ground Floor	Cum	2.166	16626.127		36,009.57	
	First Floor	Cum	2.034	18551.054		37,736.53	
	Terrace	Cum	2.816	23608.781		66,488.23	
	(D)R.C.C. Staircase						
	Ground Floor	Cum	2.780	18849.077		52,403.83	
	First Floor	Cum	2.780	21214.227		58,979.37	
	Terrace	Cum	3.271	27434.067		89,731.35	
	(E)R.C.C. lintel						
	Ground Floor	Cum	1.262	17104.671		21,579.47	
	First Floor	Cum	2.903	19124.390		55,515.35	
	Terrace	Cum	0.434	24432.289		10,609.72	
	(F)R.C.C. Fins						
	Ground Floor	Cum	8.441	1485.370		12,537.26	
	First Floor	Cum	8.033	1690.622		13,579.92	
8	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-in-charge Cold Twisted bars, Thermo-Mechanically-treated bars.						
	Ground Floor	Qntl	147.694	10744.105		15,86,844.63	
	First Floor	Qntl	41.012	10783.559		4,42,254.45	
	Terrace	Qntl	18.673	10868.483		2,02,947.32	
BRICK WORK							
9	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all						
	Ground Floor	Cum	1.791	6643.423		11,898.74	
	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super structure including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all						
10	Ground Floor	Cum	24.479	6688.653		1,63,733.96	
	First Floor	Cum	36.915	7129.206		2,63,175.17	
	Terrace	Cum	5.555	8233.096		45,730.73	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
11	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:4) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super structure including splay cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	1.343	6961.626		9,346.50	
	First Floor	Cum	2.685	7402.194		19,876.00	
	FINISHING WORK						
12	12mm cement plaster with water proofing compound mix on external RCC/brick surfaces in cement plaster 1:6 (1 cement : 6 coarse sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (External Surface)						
	Ground Floor	Sqm	230.051	225.333		51,837.99	
	First Floor	Sqm	229.745	234.524		53,880.63	
	Terrace	Sqm	122.545	254.308		31,164.12	
13	16mm cement plaster with water proofing compound mix on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	521.977	325.064		1,69,675.87	
	First Floor	Sqm	382.531	333.320		1,27,505.09	
	Terrace	Sqm	105.103	350.583		36,847.34	
14	Providing 6mm thick cement plaster in RCC surfaces including deep chipping and slurry treatment at all floors at all height with cement mortar of mix (1:4) with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours and scaffolding required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge						
	Ground Floor	Sqm	108.339	252.323		27,336.39	
	First Floor	Sqm	108.579	258.787		28,098.84	
	Terrace	Sqm	11.088	272.304		3,019.31	
	FLOORING WORK						
15	Providing and fixing 20mm thick Granite stone flooring (sample of Granite stone should be approved by Engineer-In-Charge) for stair case trade, riser and similar locations where ever required in horizontal/vertical surfaces of required size of approved shade, colour and texture, with moulding edge etc. laid over 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch ups including rubbing, curing, moulding and polishing to give high gloss finish etc. complete as per direction of Engineer-in-charge. In all floors and all heights.						
	Ground Floor	Sqm	38.454	3719.033		1,43,011.69	
	First Floor	Sqm	34.830	3754.228		1,30,758.26	
	Terrace	Sqm	40.976	3829.985		1,56,937.48	
16	Providing and laying Vitrified floor tiles 600x600 mm (thickness to be specified by the manufacturer) 1st quality of ,approved make, colours & shades laid on 20 mm thick cement mortar 1:4 (1cement: 4coarse sand) including pointing the joints with white cement and matching pigments, etc. complete as per direction of Engineer-In-Charge at all floors and all heights						
	Ground Floor	Sqm	93.700	1348.838		1,26,385.87	
	First Floor	Sqm	76.730	1364.735		1,04,715.44	
17	Supplying, fitting & fixing of Vitrified Skirting tiles of premium grade having thickness 8mm to 10mm confirming to IS 13755 of size 60cm x 60cm coloured/printed series in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Ground Floor	Sqm	11.276	1508.463		17,008.89	
	First Floor	Sqm	11.447	1628.104		18,636.82	
18	Providing, fitting and fixing Vitrified industrial floor tile of size 300x300 mm of approved make conforming to IS: 13755 laid on 20 mm thick cement mortar 1:4 (1 cement: 4 course sand) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc required for the work all complete as per direction of Engineer-In-Charge (for New work only)						
	Ground Floor	Sqm	14.639	1249.156		18,286.44	
	First Floor	Sqm	12.448	1265.054		15,747.49	
19	Supplying, fitting & fixing of 30cm x 20cm/20cm x 20cm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753 in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						
	Ground Floor	Sqm	50.255	1171.468		58,871.57	
	First Floor	Sqm	49.909	1195.387		59,660.11	
20	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
	Ground Floor	Sqm	8.519		2613.88		22,267.72
	First Floor	Sqm	12.448		2613.877		32,537.75
	BUILT IN JOINERIES						
21	Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.						
	Ground Floor	Rmt	22.228		850.7328		18,909.66
	First Floor	Rmt	22.228		850.7328		18,909.66
	Terrace	Rmt	5.200		850.7328		4,423.81
22	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with I mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete						
	Ground Floor	Sqm	7.854		12588.960		98,873.69
	First Floor	Sqm	7.854		12588.960		98,873.69
	Terrace	Sqm	2.100		12588.960		26,436.82

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
23	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-I (ISI marked) size 100mm are to be fitted on one side of shutter.						
	Ground Floor	Sqm	1.339		4845.387		6,486.76
	First Floor	Sqm	1.260		4845.387		6,105.19
24	Supplying, fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all Fitting and fixtures etc. complete as per direction of Engineer-in-charge at all floors and all heights.						
	Ground Floor	Sqm	23.247		5853.945		1,36,086.65
	First Floor	Sqm	22.262		5853.945		1,30,317.59
25	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kq	581.175	405.212		2,35,499.08	
	First Floor	Kq	556.538	405.212		2,25,515.67	
	PAINT WORK						
26	Providing & Applying priming one coat with Cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sam	774.330	94.872		73,462.27	
	First Floor	Sam	612.726	97.246		59,585.27	
	TERRACE	Sam	238.736	102.210		24,401.29	
27	Texture Paint :Providing and applying two coats unitle's in approved shade on a smooth cement sand plaster. The composition of the texture paint should consist of Acrylic Copolymer Resins combined with Quartz, Silica,mineral aggregates, synthetic inorganic pigments, bactericide, fungicides and various other additives,giving the product water repellent properties. The first coat to be applied by brush or wool roller as a base coat, diluted with sufficient water and the final coat applied undiluted with trowel and then finished with acrylic trowel to obtain the specified grooves.The thickness of both coats should be 1.0 to 1.5 mm. The water repellency of the product is 86gm/m2 as per test method IS: 5410-1969.						
	Ground Floor	Sam	195.543		481.440		94,142.31
	First Floor	Sam	229.745		481.440		1,10,608.34
	TERRACE	Sam	122.545		481.44		58,998.06
28	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sam	232.725	100.501		23,389.02	
	First Floor	Sam	417.443	102.739		42,887.58	
	TERRACE	Sam	116.191	107.419		12,481.07	
29	Preparing surface and painting at all height with two or more coats of interior Plastic Emulsion ", of approved shade as per the instructions of the manufacturers; giving uniform shade etc in all heights of walls etc. including interior wall primer & providing scaffolding, cleaning, curing and supply of all materials and labour complete as per drawing, design and direction of Architect/Engineer-In-Charge at all floors and all heights. (Internal Surface).						
	Ground Floor	Sqm	535.769	122.366		65,559.89	
	First Floor	Sqm	417.443	124.962		52,164.51	
	TERRACE	Sqm	116.191	130.345		15,144.94	
	S.S Railing						
30	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kq	59.836	405.212		24,246.44	
	First Floor	Kq	59.836	405.212		24,246.44	
	TERRACE	Kq	70.396	405.212		28,525.22	
	Waterproofing Treatment :-						
31	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be						
	First Floor	Sqm	80.564		908.128		73,162.13
	Waterproofing Treatment :- Terrcae Roof Top Surface.						
32	Providing and installing two component acrylic modified cementitious waterproofing coating with masterseal 551/Equivalent over roof slab after carrying out pond test on roof slab filling all defects, saturating the surface mixing the products and then application in 2 mm thickness (1.8kg/sqm coverage rate for 1mm thickness) in suitable layers complete in all respect, all materials, tools,plant & labour complete in all respect. (Approved rate for MPH building SI no-05)						
	TERRACE	Sam	302.000		548.228		1,65,564.86
33	Providing and laying grading conc. 25 mm (avg. thickness) cement concrete of required slope of mix 1:2:2 (1cement:2sand:2 graded stone aggregate of 10 mm nominal size) mixed with approved water proof compound as per manufacturer's specification on top of slab including cement slurry, all complete, including the cost of water proofing admixture, which should be approved by the Engineer-In-Charge prior to material procurement by the contractor.						
	TERRACE	Sqm	604.000		81.10		48,984.93
	G.R.C. JALI						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
34	ProvProviding and fixing glass reinforced concrete (G.R.C) Screens in approved size, pattern, design, shadeand thickness of 50mm on frame and design element in 30mm thick have weight approximately between 3.5 - 4 kg per sq.ft. and color of M/S Unistone make or equivalent. The above weight and having at least 50% void space. The screens should be made from 53 grade white portland cement manufactured by N.E.G JAPAN or equivalent, super plasticizers manufactured by BASF or equivalent, polymers manufactured by BASF or equivalent and U.V resistant synthetic inorganic pigments should be used for pigmentation manufactured by BAYFERROX (Germany) or equivalent.MAKE : SAMUDYAM/ECOVISION/BIRLA						
	Ground Floor	Sqm	4.889		9526.140		46,569.29
	First Floor	Sqm	4.845		9526.140		46,154.15
	TERRACE	Sqm	3.064		9526.140		29,184.52
35	MARMOPLAST NATURAL along with grooves (brick pattern crafted in texture) : Providing and laying weather and Ultraviolet Resistant, Water Repellent, Dust, Dirt, Stain Resistant, Fungus and Algae Resistant natural non pigmented texture (95 to 98% natural crushed stone dust/powder and 2 to 5% other pigments) of approved make with final coat of texture with stone chips to derive the approved petit texture pattern (attainable thickness: 0.70 to 0.90mm to offer grooved finish) applied with trowel over a coat of texture without chips (attainable thickness: 0.70 to 0.90mm to offer smooth surface as base coat) over a coat of exterior water repellent masking primer & repair check with cement & primer over a coat of acrylic primer mixed with wall sealer in the ratio of 1:1 complete as approved by Engineer-in-charge. After all coat of texture a special siloxane resin based to be done with sponge to be burnt brick look alike.						
	Ground Floor	Sqm	4.889		1038.40		5,076.30
	First Floor	Sqm	4.845		1038.400		5,031.05
	TERRACE	Sqm	3.064		1038.400		3,181.27
	P.H. WORK:-						
1	GPH Works: Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor pvc pipes confirming to ASTM-D- 1785/89 (Sch-80) and pipe fittings of the following nominal borewidth with clamps including making good the wall, ceiling and floor, testing all complete as per specification and direction of the Engineer-in-charge.						
a)	Ground floor						
	15 mm CPVC (sdr-13.5) pipes	Mtr	7.278	195.408		1,422.08	
	20 mm CPVC (sdr-13.5) pipes	Mtr	31.500	268.922		8,471.04	
	25 mm CPVC(sdr-13.5) pipes	Mtr	32.500	351.050		11,409.13	
	32 mm CPVC sdr-13.5 pipes	Mtr	22.500	505.748		11,379.33	
	40 mm CPVC sdr-13.5 pipes	Mtr	22.500	702.454		15,805.22	
	50 mm UPVC sch-80 pipes	Mtr	12.500	791.662		9,895.78	
b)	First floor						
	15 mm CPVC (sdr-13.5) pipes	Mtr	12.500	195.408		2,442.60	
	20 mm CPVC(sdr-13.5) pipes	Mtr	25.000	277.654		6,941.35	
	25 mm CPVC(sdr-13.5) pipes	Mtr	29.300	360.372		10,558.90	
	32 mm CPVC sdr-13.5 pipes	Mtr	30.000	516.722		15,501.66	
	40 mm CPVC sdr-13.5 pipes	Mtr	22.500	716.496		16,121.16	
	50 mm UPVC sch-80 pipes	Mtr	22.500	808.654		18,194.72	
c)	Second floor		0.000				
	20 mm CPVC (sdr-13.5) pipes	Mtr	12.500	287.212		3,590.15	
	25 mm CPVC(sdr-13.5) pipes	Mtr	25.000	370.520		9,263.00	
	32 mm CPVC sdr-13.5 pipes	Mtr	32.500	528.876		17,188.47	
	40 mm CPVC sdr-13.5 pipes	Mtr	30.000	731.954		21,958.62	
	50 mm UPVC sch-80 pipes	Mtr	22.500	827.416		18,616.86	
2	supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking G.I. Pipes and fittings/ P.V.C. pipes and fittings etc. all complete as per P.H. specification and direction of Engineer-in-charge.					-	
a)	Ground Floor :- 250 mm thick wall	Each	3.000	82.600		247.80	
b)	First Floor :- 250 mm thick wall	Each	4.000	82.600		330.40	
c)	Tarrace :- 250 mm thick wall	Each	4.000	82.600		330.40	
3	Supplying all materials, labour, T&P and cutting hole in R.C.C floors, roofs, etc upto 19 cm thick for passing G.I. Pipes / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof as per direction of the Engineer-in-charge.					-	
a)	Ground Floor :- 250 mm thick wall	Each	2.000	256.532		513.06	
b)	First Floor :- 250 mm thick wall	Each	2.000	256.532		513.06	
c)	Tarrace :- 250 mm thick wall	Each	2.000	256.532		513.06	
4	Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking G.I./P.V.C. pipes and making good the damages as per direction of the E.I.C.					-	
a)	Ground Floor	Mtr	10.000	283.436		2,834.36	
b)	First Floor	Mtr	10.000	283.436		2,834.36	
d)	Tarrace Floor	Mtr	10.000	283.436		2,834.36	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.					-	
a)	Supplying all materials, labour, T&P and fixing standard sized two way Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge.15mm dia. nominal bore Long body Bib Cock	Each	4.000	1209.972		4,839.89	
b)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge.15mm dia. nominal bore Long body Bib Cock	Each	10.000	1471.224		14,712.24	
c)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge.15mm dia. nominal bore Short body Bib Cock	Each	6.000	1209.972		7,259.83	
d)	Supplying all materials, labour, T&P and fixing standard sized 15mm dia angular Stop cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP angle stop cock with wall flange	Each	8.000	1209.972		9,679.78	
e)	Supplying all materials, labour, T&P and fixing standard sized pillar cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge. 15mm dia brass pillar cock Cat	Each	3.000	1471.224		4,413.67	
f)	Fixing of 25mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge.32mm dia brass or gun metal full way valve	Each	3.000	1095.276		3,285.83	
g)	Fixing of 32mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge.32mm dia brass or gun metal full way valve (shakti make)	Each	3.000	1603.502		4,810.51	
h)	Fixing of 40mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge.40mm dia brass or gun metal full way valve	Each	3.000	2035.854		6,107.56	
	15mm dia PVC connection pipe 450 mm long	Each	10.000	40.120		401.20	
	15mm dia CP Extension Nipple	Each	10.000	69.974		699.74	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
1)	Providing and fixing circular type stainless steel jalli (grating) with hole for floor /nahani trap etc complete as per specification and direction of the Engineer in charge.	Each	8.000	104.312		834.50	
6	Supplying all materials, labour, T&P and fixing Health Faucet of . complete with Chromium plated brass brackets fixed to wooden plugs with Chromium plated brass screws as per specification and direction of the Engineer-In-Charge.					-	
	15mm dia CP Health Faucet of. 1.2mtr long, 8MM dia ..	Each	4.000	1611.998		6,447.99	
7	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.					-	
a)	In Building		0.000			-	
	110mm diameter U-PVC SWR pipes	Mtr	15.000	541.38		8,120.76	
	110mm U-PVC door Tee	Each	6.000	455.48		2,732.88	
	110mm U-PVC offset	Each	3.000	480.73		1,442.20	
	110mm U-PVC door bend	Each	4.000	346.45		1,385.79	
	110mm U-PVC plain shoe bend	Each	6.000	273.76		1,642.56	
	110mm U-PVC vent cowl	Each	5.000	68.68		343.38	
	110mm P-trap	Each	8.000	586.81		4,694.51	
	110mm U-PVC plain bend	Each	6.000	273.76		1,642.56	
	100mm S/S coupling with EPMD	Each	5.000	431.05		2,155.27	
8	Supplying all materials,labour T&P and cutting holes through existing brick or laterite masonry wall for taking H.C.I pipes and fittings including making good the damages etc. all complete as per P.H.Specification and direction of the Engineer-In-Charge.					-	
	250mm to 375mm thick wall	Each	4.000	248.51		994.03	
9	Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern of . with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle,unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and conncting the inlet pipe with suuppy main etc all complete as per the specification and direction of the Engineer-in-charge.					-	
	10 Liters capacity PVC cistern with 32mm dia flush bend. sleek fresh single flush Starwhite.	Each	4.000	14,878.62		59,514.48	
10	Supplying all materials, labour, T&P and fixing vitreous china water closet, squatting pan (Indian type W.C pan/Oriassa pattern squatting pan) of duly embedded in cement concrete (1:4:8) using 4cm size hard granite metal including fixing a pair of vitreous china 250mm x 130mm x30mm footrest, fixing 100mm dia HCI 'p' or 's' trap (with/without 50mm dia horn) for water colset squatting pan including jointing the trap with pan in cement mortar (1:1) cutting the floor and mending good the damages etc all complete as per specification and direction of the Engineer-In-Charge.					-	
		Each	2.000	3348.604		6,697.21	
11	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C. pan) of . with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of the Engineer-In-Charge.					-	
	FWC with 'p' / S trap plain	Each	8.000	6790.000		54,320.00	
12	Supplying all materials, labour T&P and fixing wash basins of with hole for pillar taps with cast iron or M.S.brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, etc all complete as per specification and direction of the Engineer-In-Charge.					-	
		Each	1.000	10185.406		10,185.41	
13	Countersunk Wash Basin					-	
	Supplying all materials, labour T&P and fixing counter sunk Wash Basin Size - 545mmx545x180mm, Cat.No. FLS-WHT-29601 with all fittings as per direction of the engineer-in -charge.	Each	4.000	8071.554		32,286.22	
14	Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm thick A.C.sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of the Engineer-in-charge.					-	
	750mmx600mm size B.E.mirror	Sqm	3.375	791.19		2,670.27	
15	Supplying all materials, labour, T&P and fixing standard size glass-shelf Glass-Shelf with Chromium Plated brass brackets and guard rails complete, fixed to wooden plugs with Chromium Plated brass screws					-	
	glass shelf 600mm long	Each	4.000	1,900.51		7,602.03	
16	Supplying all materials,labour, T&P and fixing standard sized CP towel ra-il 24" of . complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer-In-Charge					-	
	25mmx600mm long CP towel rail	Each	4.000	1,811.65		7,246.62	
17	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated brass towel ring complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge	Each	4.000	827.65		3,310.61	
18	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated soap case of . complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge					-	
	CP soap holder	Each	4.000	754.96		3,019.86	
19	Supplying all materials, labour, T&P and fixing standard sized Robe Hook of . complete with all as per specification and direction of the Engineer in charge.	Nos	4.000	1,022.59		4,090.35	
20	Providing and fixing Salem Stainless steel A ISI (18/8) kitchen sink as per IS : 13983 Kitchen Sink Double Bowl with Round Waste Coupling	Nos	4.000	4023.800		16,095.20	
21	Supplying all materials, labour, T&P and fixing 100 mm dia wall mounted over head shower & Shower arm . including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineer-in-charge. 100 mm dia CP overhead shower with Arm	Nos	5.000	2816.660		14,083.30	
22	Supplying all materials, labour, T&P and fixing standard sized 15mm dia Single lever Concealed Deusch mixer with provision for connection to overhead shower only of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Engineer-in-charge. Concealed stop cock	Each	5.000	3019.856		15,099.28	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
23	Fixing Rotational moulded Poly Propylene double layer cylindrical vertical water storage tanks conforming to IS 12701-1996 including cutting holes through the tank and fixing mild steel tubes and fitting and providing extra sockets and jam nuts, fixing ball valve etc, including hosting upto a height of 5 mtr above ground level and placing the tank to the required position etc all complete as per specification and direction of the Engineer-in-charge.					-	
	2000 ltr capacity Double layer cylindrical vertical water storage tanks	Each	1.000	30,042.80		30,042.80	
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap, Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per approved drawing, specification and direction of Engineer-in-charge.					-	
	250mmx250mm with RCC cover	Each	4.000	1,681.38		6,725.53	
2	Supplying all materials, labour, T & P and constructing Inspection chamber of the following inside size with CC (1:3:6) mix using 40mm size h.g. metal on bed, 1st class Fly Ash brickwork in CM (1:6), moulding and shaping the channel inside and benching with CC (1:2:4) using 12mm size h.g. chips, 12mm thick cement plastering (1:3) finished with punning to inside, cement flush pointing (1:3) to outside, R.C.C. cover slab in (1:2:4) using 12mm size h.g. chips with RCC man hole cover, earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc. all complete as per approved drawing, specification and direction of Engineer-in-charge.					-	
	Inside size 760mm x760mm x450mm	Each	4.000	10,581.41		42,325.66	
3	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized PVC pipes conforming to IS: 4985/2000 of the following outside dia for class 3(0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer-in-charge.					-	
a)	110mm dia u-pvc pipe around concrete	mtr	20.000	1,260.59		25,211.88	
b)	160mm dia u-pvc pipe around concrete	mtr	20.000	2,042.11		40,842.16	
4	Supplying all materials, labour, T&P and constructing Man hole chamber of the following size with cement concrete (1:3:6) using 40 mm size HG metal on bed, 1st class Fly Ash Brick work in CM (1:6) moulding and shaping the channel inside and benching with CC (1:2:4) mix using 12 mm size H.G chips, 12 mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, RCC cover slab in (1:2:4) mix using 12 mm size H.G chips with RCC man hole cover, earth work in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite payment of royalty, taxes etc. all completed as per approved drawing, specification and direction of Engineer-in-charge.					-	
a)	Inside size 900mmx900mmx900mm	each	2.000	20,040.88		40,081.77	
b)	addl depth of 0.30m upto 4.50m depth	each	2.000	3,259.99		6,519.97	
5	Supplying all materials, labour, T&P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe, earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer-In-Charge.					-	
a)	RCC rings soakway pit 1.22m dia x 2.0m deep	each	1.000	24,017.48		24,017.48	
6	Supplying all materials, labour, T&P and constructing soakway pit of the following size with dry brick walling from bottom upto invert of inlet pipe and 1st class K.B brickwork in cement mortar (1:6) for the remaining height at top, cement concrete (1:4:8) using 40mm size hg chips on bed, 12mm thick cement plaster (1:4) inside and outside over masonry brickwork, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge					-	
	Brick masonry soakway pit 1.20m dia x 2.00m deep	each	1.000	21740.438		21,740.44	
	SEPTIC TANK. (100 USER)					-	
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works up to and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.	Cum	52.772	359.782		18,986.24	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15 cm in depth : consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge	Cum	35.357	197.9160979		6,997.70	
3	Supplying of filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of E.I.C.	Cum	4.691	682.217		3,200.14	
4.00	Providing and laying plain cement concrete 1:3:6 (1 cement:3 sand: 6 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curing, shuttering etc. complete all depth and height.	Cum	2.345	6182.3976		14,500.20	
5.00	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	Cum	3.9	8,658.77		33,959.69	
6.00	Providing, lifting, hoisting and laying Reinforced cement concrete of M-250 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.					-	
	a) Base	Cum	3.9	7,499.37		29,427.53	
	b) Wall/Beam					-	
	Septic tank	Cum	8.6	18,429.61		1,57,983.22	
	c) Slab	Cum	2.8	16,051.93		44,760.72	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
7.00	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-In-Charge.Cold Twisted bars, Thermo-Mechanically-treated bars.	Qntl	15.3	10,744.10		1,64,220.90	
	Fly Ash bricks Masinary (1:6) (in F & P).					-	
8.00	First class Fly Ash Brick masonry using F.A. bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.	Cum	1.2	6,600.49		7,937.09	
	12 mm Plastering.					-	
9.00	12mm cement plaster on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including neat cement punning & necessary scaffolding, curing etc. all complete at all floors and all heights.	Sqm	84.0	248.24		20,859.52	
	16 mm Plastering.					-	
10.00	Providing 16mm. thick cement plaster in all floors at all height with cement mortar of mix (1:6) with OPC 53 grade cement finished smooth to inside smooth surface of brick masonry walls after racking out the joints including watering and curing, rounding of corners etc. complete with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours, sundries, T&P and scaffolding required for the work etc. complete in all respect as desired by the Engineer in charge.	Sqm	8.0	322.30		2,564.18	
11.00	Supplying all materials, labour, T&P and providing , fitting & fixing 100mm x100mm x100 mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.	Each	2.0	459.26		918.51	
12.00	Supplying all materials ,labour, T&P and making MS STEP IRON IN 20MM diameter MS steel bars & fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	5.0	317.66		1,588.28	
	ELECTRICAL:-						
1.00	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked with 20 mm dia HMS FRLS PVC conduit ISI marked 6A modular type (flame retardant type) switch ISI marked and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (flame retardant type) of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. . All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials..Each lightpoint should have provision for ceiling rose and angle holder point. In all the rooms there shall be two types of switchboard- one for raw and the other one for emergency. The inverter switchboard shall include atleast one fan, one light and one 6A emergency socket.						
a)	GROUP-A	Nos	16	726.88		11,630.08	
a-1)	GROUP-B	Nos	16	1,078.52		17,256.32	
B	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)((flame retardant type)) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	12	231.28		2,775.36	
c)	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 2 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	12	650.18		7,802.16	
d)	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(For equipement power)All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	12	810.66		9,727.92	
2.a)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (2X1.5+1X1.5)	Mtr	160	187.62		30,019.20	
b)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit. (2X2.5+1X1.5)	Mtr	160	204.14		32,662.40	
c)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit (2X4+1X1.5)	Mtr	120.0	225.38		27,045.60	
d)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty conduit . (2X6+1X2.5)	Mtr	80	261.96		20,956.80	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
4	Supplying and installation of AC Point having 16-20A DP MCB, C series with enclosure, of suitable size as required as per direction of Engg.-in-Charge .All the Components should be warranted for a replacement period of 1 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	32	2,655.00		84,960.00	
5	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover.Make Havells/Anchor as required as per direction of Engg.-in-Charge.All the Components should be warranted for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	4	252.52		1,010.08	
6	S/F of Bakelite angle holder/batten holder of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge .All the Components should be warranted for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	each	16	89.68		1,434.88	
7	S/F of 5 step type Modular electronic Fan Regulator ISI Marked with all connection complete in all respect as per direction of Engineer in charge	Each	8	441.32		3,530.56	
B	Sub-Head II (Light fitting Fixture & Fan)						
8	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & conection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	8	3,693.40		29,547.20	
9	Supplying, installation, testing and commssioning of 1200 mm sweep Copper wound BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,Replacement Warranty will be 4 years.	Nos	8	4,394.32		35,154.56	
10	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	16	1,109.20		17,747.20	
11	SITC of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 2 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years .	Nos	16	859.04		13,744.64	
12	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	4	514.48		2,057.92	
c)	DBBS,DB,AC DB,FLOOR PANELS,MCBS						
13	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 3 years						
b)	Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) Warranty on DB is 3 years	Nos	16	3,375.98		54,015.68	
14	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series,10KA breaking capacity, single poles MCB of the existing MCB DB complete with connections as per direction of Engg.-in-Charge. .Warranty on MCB is 1 years.	Nos	24	378.78		9,090.72	
15	Supplying and fixing 63Amps 2P 240 volts RCCB 30 mA in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.The RCCB should be Replacement Warranty will be 1 year	Nos	4	3,465.66		13,862.64	
16	Supplying and fixing 63Amps rating,C series,10KA breaking capacity, 2P 240 volts MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge..The MCB should be Replacement Warranty will be 1 years.	Nos	4	3,027.88		12,111.52	
d)	(Earthing) INSTALLATION						
17	Supplying,installation,testing & commissioning of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonary enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge	Nos	2	7,670.00		15,340.00	
18	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	20	177.00		3,540.00	
e)	CABLING AND END TERMINATION MAIN AREA						
19	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials						
	3 core x 16 sq mm	Mtr	80	359.90		28,792.00	
	3.5 core x 50 sq mm	Mtr	50	802.40		40,120.00	
	LAYING OF CABLE					-	
20	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	80	74.34		5,947.20	
21	Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.					-	
	3 core x16sq mm	Nos	8	273.76		2,190.08	
f)	PANELS						
	MAIN CONTROL PANEL AT GF						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
22	S/I/T&Commissioning of CPRI tested LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint followed by 9 tank acid treatment is designed as G.A drawing as per direction of Engg.-in-Charge.Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list. 60X10MM Separate Aluminium Earth bus bar should be installed. All the Major feeders shall have ON/OFF/TRIP indication.	Set	1	52,587.88		52,587.88	
	Conduit for TV Point etc.						
3	Supplying and fixing of following sizes of HEAVY class PVC FRLS conduit ISI marked along with accessories in surface/recess making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge .					-	
3.1	20 MM	Mtr	48	148.68		7,136.64	
					TOTAL	98,79,215.01	12,86,886.20
				GRAND TOTAL (SINGLE QUARTERS)		1,11,66,101.21	

04 nos of Family Quarter for staff							
Bill of Quantities							
Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
	CIVIL WORK						
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works upto and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush,shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.						
	Ground Floor	Cum	536.347	359.782		1,92,967.94	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15cm in depth: consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge.						
	Ground Floor	Cum	357.565	197.916		70,767.78	
3	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) over 100mm bed of dry brick ballast 40 mm nominal size well rammed, consolidated and grouted and fine sand and finishing the top smooth in proper slop including all complete						
	Ground Floor	Cum	28.050	816.310		22,897.49	
4	Supplying and filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of Engineer-In-charge.						
	Ground Floor	sqm	287.236	835.546		2,39,998.92	
5	Pre-Construction Anti-termite treatment to your site with Imidachlopid 30.5 SC or chloropyrifos 20% EC as per IS 6313 Part-III (2013) revision including all materials and labour cost etc.						
	Ground Floor	Cum	581.400	123.310		71,692.43	
6	Providing and laying plain cement concrete 1:4:8 (1 cement : 4 sand : 8 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curring, shuttering etc. complete all depth and height.						
	Ground Floor	Cum	60.709	6763.076		4,10,579.77	
	RCC WORK						
7	Providing, lifting, hoisting and laying Reinforced cement concrete of M-25 grade as per approved designs and drawings having a minimum compressive strength (in work test) 25 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.						
	(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.						
	Ground Floor	Cum	101.469	8073.571		8,19,219.48	
	R.C.C. Plinth Beam						
	Ground Floor	Cum	16.892	9100.578		1,53,728.39	
	(B)R.C.C. Column &cRoof Beam						
	Ground Floor						
	Column	Cum	7.574	19003.810		1,43,925.36	
	Beam	Cum	8.606	19003.810		1,63,551.54	
	First Floor					-	
	Column	Cum	5.990	21399.574		1,28,182.38	
	Beam	Cum	10.089	21399.574		2,15,901.91	
	Terrace					-	
	Column	Cum	1.800	27700.549		49,860.99	
	Beam	Cum	4.200	27700.549		1,16,342.31	
	(C) R.C.C. Slab						
	Ground Floor	Cum	2.166	16626.127		36,009.57	
	First Floor	Cum	2.034	18551.054		37,736.53	
	Terrace	Cum	6.263	23608.781		1,47,849.99	
	(D)R.C.C. Staircase						
	Ground Floor	Cum	2.780	18849.077		52,403.83	
	First Floor	Cum	2.780	21214.227		58,979.37	
	Terrace	Cum	3.361	27434.067		92,212.76	
	(E)R.C.C. lintel						
	Ground Floor	Cum	1.297	17104.671		22,179.20	
	First Floor	Cum	3.611	19124.390		69,060.44	
	Terrace	Cum	0.694	24432.289		16,949.90	
	(F)R.C.C. Fins						
	Ground Floor	Cum	8.441	1485.370		12,537.26	
	First Floor	Cum	10.710	1690.622		18,106.56	
8	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-in-charge Cold Twisted bars, Thermo-Mechanically-treated bars.						
	Ground Floor	Ontl	220.014	10744.105		23,63,851.27	
	First Floor	Ontl	54.707	10783.559		5,89,932.27	
	Terrace	Ontl	30.316	10868.483		3,29,484.85	
	BRICK WORK						
9	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splay cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all						
	Ground Floor	Cum	1.791	6643.423		11,898.74	
	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super stracture including splay cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all						
10		Cum	34.061	6688.653		2,27,822.13	
	Ground Floor	Cum	48.321	7129.206		3,44,491.97	
	First Floor	Cum	6.143	8233.096		50,571.79	
	Terrace	Cum					

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
11	First class Fly ash Brick masonry using bricks of size 25cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:4) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Super structure including splay cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-In-Charge. at all floors and all heights.						
	Ground Floor	Cum	1.343	6961.626		9,346.50	
	First Floor	Cum	4.028	7402.194		29,814.00	
	FINISHING WORK						
12	12mm cement plaster with water proofing compound mix on external RCC/brick surfaces in cement plaster 1:6 (1 cement : 6 coarse sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (External Surface)						
	Ground Floor	Sqm	230.051	225.333		51,837.99	
	First Floor	Sqm	229.745	234.524		53,880.63	
	Terrace	Sqm	162.150	254.308		41,235.97	
13	16mm cement plaster with water proofing compound mix on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:6 (1 cement : 6 fine sand) including necessary scaffolding, curing etc. all complete at all floors and all heights. (Internal Surface)						
	Ground Floor	Sqm	539.878	325.064		1,75,494.84	
	First Floor	Sqm	382.531	333.320		1,27,505.09	
	Terrace	Sqm	113.139	350.583		39,664.62	
14	Providing 6mm thick cement plaster in RCC surfaces including deep chipping and slurry treatment at all floors at all height with cement mortar of mix (1:4) with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours and scaffolding required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge						
	Ground Floor	Sqm	113.276	252.323		28,582.14	
	First Floor	Sqm	108.579	258.787		28,098.84	
	Terrace	Sqm	11.088	272.304		3,019.31	
	FLOORING WORK						
15	Providing and fixing 20mm thick Granite stone flooring (sample of Granite stone should be approved by Engineer-In-Charge) for stair case trade, riser and similar locations where ever required in horizontal/vertical surfaces of required size of approved shade, colour and texture, with moulding edge etc. laid over 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) with joints treated with white cement mixed with matching pigment, epoxy touch ups including rubbing, curing, moulding and polishing to give high gloss finish etc. complete as per direction of Engineer-in-charge. In all floors and all heights.						
	Ground Floor	Sqm	38.454	3719.033		1,43,011.69	
	First Floor	Sqm	43.372	3754.228		1,62,828.75	
	Terrace	Sqm	40.976	3829.985		1,56,937.48	
16	Providing and laying Vitrified floor tiles 600x600 mm (thickness to be specified by the manufacturer) 1st quality of ,approved make, colours & shades laid on 20 mm thick cement mortar 1:4 (1cement: 4coarse sand) including pointing the joints with white cement and matching pigments, etc. complete as per direction of Engineer-In-Charge at all floors and all heights						
	Ground Floor	Sqm	98.637	1348.838		1,33,045.26	
	First Floor	Sqm	88.006	1364.735		1,20,104.33	
17	Supplying, fitting & fixing of Vitrified Skirting tiles of premium grade having thickness 8mm to 10mm conforming to IS 13755 of size 60cm x 60cm coloured/printed series in dadoes, skirting and risers of steps of laid on 12 mm thick cement mortar (1:3) (1 cement : 3 coarse sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
	Ground Floor	Sqm	11.943	1508.463		18,015.46	
	First Floor	Sqm	12.689	1628.104		20,658.68	
18	Providing, fitting and fixing Vitrified industrial floor tile of size 300x300 mm of approved make conforming to IS: 13755 laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) and filling joints with white cement of approved quality including cost of all materials, labour T&P etc required for the work all complete as per direction of Engineer-In-Charge (for New work only)						
	Ground Floor	Sqm	14.639	1249.156		18,286.44	
	First Floor	Sqm	12.448	1265.054		15,747.49	
19	Supplying, fitting & fixing of 30cm x 20cm/20cm x 20cm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm conforming to IS 13753 in dadoes, skirting and risers of steps laid on 12 mm thick cement mortar (1:3) (1 cement : 3 coarse sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						
	Ground Floor	Sqm	50.255	1171.468		58,871.57	
	First Floor	Sqm	54.835	1195.387		65,549.31	
20	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
	Ground Floor	Sqm	8.519		2613.88		22,267.72
	First Floor	Sqm	12.448		2613.877		32,537.75
	BUILT IN JOINERIES						
21	Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.						
	Ground Floor	Rmt	22.228		850.7328		18,909.66
	First Floor	Rmt	22.228		850.7328		18,909.66
	Terrace	Rmt	5.200		850.7328		4,423.81
22	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with I mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete						
	Ground Floor	Sqm	7.854		12588.960		98,873.69
	First Floor	Sqm	7.854		12588.960		98,873.69
	Terrace	Sqm	2.100		12588.960		26,436.82

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
23	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S.specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy whight mild steel butt hinges type-I (ISI marked) size 100mm are to be fitted on one side of shutter.						
	Ground Floor	Sqm	1.339		4845.387		6,486.76
	First Floor	Sqm	1.260		4845.387		6,105.19
24	Supplying, fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame. shutters and all Fitting and fixtures etc. complete as per direction of Engineer-in-charge at all floors and all heights.						
	Ground Floor	Sqm	23.247		5853.945		1,36,086.65
	First Floor	Sqm	22.262		5853.945		1,30,317.59
25	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kg	581.175	405.212		2,35,499.08	
	First Floor	Kg	819.506	405.212		3,32,073.77	
	PAINT WORK						
26	Providing & Applying priming one coat with Cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	794.885	94.872		75,412.30	
	First Floor	Sqm	612.726	97.246		59,585.27	
	TERRACE	Sqm	286.377	102.210		29,270.70	
27	Texture Paint :Providing and applying two coats unitle's in approved shade on a smooth cement sand plaster. The composition of the texture paint should consist of Acrylic Copolymer Resins combined with Quartz, Silica,mineral aggregates, synthetic inorganic pigments, bactericide, fungicides and various other additives,giving the product water repellent properties. The first coat to be applied by brush or wool roller as a base coat, diluted with sufficient water and the final coat applied undiluted with trowel and then finished with acrylic trowel to obtain the specified grooves.The thickness of both coats should be 1.0 to 1.5 mm. The water repellency of the product is 86gm/m2 as per test method IS: 5410-1969.						
	Ground Floor	Sqm	195.543		481.440		94,142.31
	First Floor	Sqm	229.745		481.440		1,10,608.34
	TERRACE	Sqm	162.150		481.44		78,065.50
28	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete at all floors and all heights.						
	Ground Floor	Sqm	241.329	100.501		24,253.75	
	First Floor	Sqm	417.443	102.739		42,887.58	
	TERRACE	Sqm	124.227	107.419		13,344.28	
29	Preparing surface and painting at all height with two or more coats of interior Plastic Emulsion ", of approved shade as per the instructions of the manufacturers; giving uniform shade etc in all heights of walls etc. including interior wall primer & providing scaffolding, cleaning, curing and supply of all materials and labour complete as per drawing, design and direction of Architect/Engineer-In-Charge at all floors and all heights. (Internal Surface).						
	Ground Floor	Sqm	555.181	122.366		67,935.30	
	First Floor	Sqm	417.443	124.962		52,164.51	
	TERRACE	Sqm	124.227	130.345		16,192.39	
	S.S Railing						
30	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm X 32mm X 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm X 32mm X 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes, all materials, labour, T&P etc. required for the complete in all respect. at all floors and all heights.						
	Ground Floor	Kg	59.836	405.212		24,246.44	
	First Floor	Kg	85.808	405.212		34,770.23	
	TERRACE	Kg	88.910	405.212		36,027.40	
	Waterproofing Treatment :-						
31	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS : 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be						
	First Floor	Sqm	80.564		908.128		73,162.13
	Waterproofing Treatment :- Terrcae Roof Top Surface.						
32	Providing and installing two component acrylic modified cementitious waterproofing coating with masterseal 551/Equivalent over roof slab after carrying out pond test on roof slab filling all defects, saturating the surface mixing the products and then application in 2 mm thickness (1.8kg/sqm coverage rate for 1mm thickness) in suitable layers complete in all respect, all materials, tools,plant & labour complete in all respect. (Approved rate for MPH building SI no-05)						
	TERRACE	Sqm	507.360		548.228		2,78,148.96
33	Providing and laying grading conc. 25 mm (avg. thickness) cement concrete of required slope of mix 1:2:2 (1cement:2sand:2 graded stone aggregate of 10 mm nominal size) mixed with approved water proof compound as per manufacturer's specification on top of slab including cement slurry, all complete, including the cost of water proofing admixture, which should be approved by the Engineer-In-Charge prior to material procurement by the contractor.						
	TERRACE	Sqm	724.800		81.10		58,781.91
	G.R.C. JALI						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
34	ProvProviding and fixing glass reinforced concrete (G.R.C) Screens in approved size, pattern, design, shadeand thickness of 50mm on frame and design element in 30mm thick have weight approximately between 3.5 - 4 kg per sq.ft .and color of M/S Unistone make or equivalent. The above weight and having at least 50% void space. The screens should be made from 53 grade white portlsnd cement manufactured by N.E.G JAPAN or equivalent, super plasticizers manufactured by BASF or equivalent, polymers manufactured by BASF or equivalent and U.V resistant synthetic inorganic pigments should be used for pigmentation manufactured by BAYFERROX (Germany) or equivalent.MAKE : SAMUDYAM/ECOVISION/BIRLA						
	Ground Floor	Sqm	4.889		9526.140		46,569.29
	First Floor	Sqm	7.225		9526.140		68,826.36
	TERRACE	Sqm	4.500		9526.140		42,867.63
35	MARMOPLAST NATURAL along with grooves (brick pattern crafted in texture) : Providing and laying weather and Ultraviolet Resistant, Water Repellent, Dust, Dirt, Stain Resistant, Fungus and Algae Resistant natural non pigmented texture (95 to 98% natural crushed stone dust/powder and 2 to 5% other pigments) of approved make with final coat of texture with stone chips to derive the approved petit texture pattern (attainable thickness: 0.70 to 0.90mm to offer grooved finish) applied with trowel over a coat of texture without chips (attainable thickness: 0.70 to 0.90mm to offer smooth surface as base coat) over a coat of exterior water repellent masking primer & repair check with cement & primer over a coat of acrylic primer mixed with wall sealer in the ratio of 1:1 complete as approved by Engineer-in-charge. After all coat of texture a special siloxane resin based to be done with sponge to be burnt brick look alike.						
	Ground Floor	Sqm	5.525		1038.40		5,737.16
	First Floor	Sqm	4.845		1038.400		5,031.05
	TERRACE	Sqm	5.600		1038.400		5,815.04
	P.H. WORK:-						
1	GPH Works: Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor pvc pipes confirming to ASTM-D- 1785/89 (Sch-80) and pipe fittings of the following nominal borewith clamps including making good the wall, ceiling and floor, testing all complete as per specification and direction of the Engineer-in-charge.						
a)	Ground floor						
	15 mm CPVC (sdr-13.5) pipes	Mtr	10.000	195.408		1,954.08	
	20 mm CPVC (sdr-13.5) pipes	Mtr	36.000	268.922		9,681.19	
	25 mm CPVC(sdr-13.5) pipes	Mtr	36.000	351.050		12,637.80	
	32 mm CPVC sdr-13.5 pipes	Mtr	24.000	505.748		12,137.95	
	40 mm CPVC sdr-13.5 pipes	Mtr	24.000	702.454		16,858.90	
	50 mm UPVC sch-80 pipes	Mtr	15.000	791.662		11,874.93	
b)	First floor						
	15 mm CPVC (sdr-13.5) pipes	Mtr	15.000	195.408		2,931.12	
	20 mm CPVC (sdr-13.5) pipes	Mtr	30.000	277.654		8,329.62	
	25 mm CPVC(sdr-13.5) pipes	Mtr	36.000	360.372		12,973.39	
	32 mm CPVC sdr-13.5 pipes	Mtr	34.000	516.722		17,568.55	
	40 mm CPVC sdr-13.5 pipes	Mtr	24.000	716.496		17,195.90	
	50 mm UPVC sch-80 pipes	Mtr	24.000	808.654		19,407.70	
c)	Second floor						
	20 mm CPVC (sdr-13.5) pipes	Mtr	14.000	287.212		4,020.97	
	25 mm CPVC(sdr-13.5) pipes	Mtr	30.000	370.520		11,115.60	
	32 mm CPVC sdr-13.5 pipes	Mtr	36.000	528.876		19,039.54	
	40 mm CPVC sdr-13.5 pipes	Mtr	34.000	731.954		24,886.44	
	50 mm UPVC sch-80 pipes	Mtr	26.000	827.416		21,512.82	
2	supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking G.I. Pipes and fittings/ P.V.C. pipes and fittings etc. all complete as per P.H. specification and direction of Engineer-in-charge						-
a)	Ground Floor :- 250 mm thick wall	Each	4.000	82.600		330.40	
b)	First Floor :- 250 mm thick wall	Each	5.000	82.600		413.00	
c)	Tarrace :- 250 mm thick wall	Each	5.000	82.600		413.00	
3	Supplying all materials, labour, T&P and cutting hole in R.C.C floors, roofs, etc upto 19 cm thick for passing G.I. Pipes / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof as per direction of the Engineer-in-charge.						-
a)	Ground Floor :- 250 mm thick wall	Each	2.000	256.532		513.06	
b)	First Floor :- 250 mm thick wall	Each	2.000	256.532		513.06	
c)	Tarrace :- 250 mm thick wall	Each	2.000	256.532		513.06	
4	Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking G.I./P.V.C. pipes and making good the damages as per direction of the E.I.C.						-
a)	Ground Floor	Mtr	10.000	283.436		2,834.36	
b)	First Floor	Mtr	10.000	283.436		2,834.36	
d)	Tarrace Floor	Mtr	10.000	283.436		2,834.36	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge						-
a)	Supplying all materials, labour, T&P and fixing standard sized two way Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP Two way bib cock with Flange	Each	4.000	1209.972		4,839.89	
b)	Supplvng all materials, labour, T&P and fixing standard sized Bib cock of . of approved n	Each	10.000	1471.224		14,712.24	
c)	Supplying all materials, labour, T&P and fixing standard sized Bib cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge.15mm dia. nominal bore Short body Bib Cock	Each	6.000	1209.972		7,259.83	
d)	Supplying all materials, labour, T&P and fixing standard sized 15mm dia angular Stop cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Er-in-charge. 15mm dia CP angle stop cock with wall flange	Each	8.000	1209.972		9,679.78	
e)	Supplying all materials, labour, T&P and fixing standard sized pillar cock of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineering-in-charge. 15mm dia brass pillar cock.Cat	Each	3.000	1471.224		4,413.67	
f)	Fixing of 25mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge.32mm dia brass or gun metal full wav valve	Each	3.000	1095.276		3,285.83	
g)	Fixing of 32mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of approved make as per specification complete as per direction of Er-in-charge.32mm dia brass or gun metal full wav valve (shakti make)	Each	3.000	1603.502		4,810.51	
h)	Fixing of 40mm dia Brass / Gun meta ball Valve confirming to IS : 781-1995 of of approved make as per specification complete as per direction of Er-in-charge.40mm dia brass or gun metal full wav valve(shakti make)	Each	3.000	2035.854		6,107.56	
	15mm dia PVC connection pipe 450 mm long	Each	10.000	40.120		401.20	
	15mm dia CP Extention Nipple	Each	10.000	69.974		699.74	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
1)	Providing and fixing circular type stainless steel jalli (grating) with hole for floor /nahani trap etc complete as per specification and direction of the Engineer in charge.	Each	8.000	104.312		834.50	
6	Supplying all materials, labour, T&P and fixing Health Faucet of . complete with Chromium plated brass brackets fixed to wooden plugs with Chromium plated brass screws as per specification and direction of the Engineer-In-Charge.					-	
	15mm dia CP Health Faucet of. 1.2mtr long, 8MM dia ..	Each	4.000	1611.998		6,447.99	
7	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.					-	
a)	In Building					-	
	110mm diameter U-PVC SWR pipes	Mtr	16.000	541.384		8,662.14	
	110mm U-PVC door Tee	Each	8.000	455.48		3,643.84	
	110mm U-PVC offset	Each	4.000	480.73		1,922.93	
	110mm U-PVC door bend	Each	5.000	346.45		1,732.24	
	110mm U-PVC plain shoe bend	Each	7.000	273.76		1,916.32	
	110mm U-PVC vent cowl	Each	7.000	68.68		480.73	
	110mm P-trap	Each	10.000	586.81		5,868.14	
	110mm U-PVC plain bend	Each	8.000	273.76		2,190.08	
	100mm S/S coupling with EPMD	Each	6.000	431.05		2,586.32	
8	Supplying all materials,labour T&P and cutting holes through existing brick or laterite masonry wall for taking H.C.I pipes and fittings including making good the damages etc. all complete as per P.H.Specification and direction of the Engineer-In-Charge.					-	
	250mm to 375mm thick wall	Each	5.000	248.51		1,242.54	
9	Supplying all materials, labour T&P and and fixing 12.50 liters/10 liters capacity low level flushing cistern of . with a pair of cast iron or M.S. brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle,unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP long flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and conncting the inlet pipe with suuppy main etc all complete as per the specification and direction of the Engineer-in-charge.					-	
	10 Liters capacity PVC cistern with 32mm dia flush bend. sleek fresh single flush Starwhite.	Each	5.000	14,878.62		74,393.10	
10	Supplying all materials, labour, T&P and fixing vitreous china water closet, squatting pan (Indian type W.C.pan/Orissa pattern squatting pan) of duly embedded in cement concrete (1:4:8) using 4cm size hard granite metal including fixing a pair of vitreous china 250mm x 130mm x30mm footrest, fixing 100mm dia HCI 'p' or 's' trap (with/without 50mm dia horn) for water colset squatting pan including jointing the trap with pan in cement mortar (1:1) cutting the floor and mending good the damages etc all complete as per specification and direction of the Engineer-In-Charge.					-	
		Each	2.000	3,348.60		6,697.21	
11	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C. pan) of . with integral 'p' or 's' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1) fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of the Engineer-In-Charge.					-	
	FWC with 'p' / S trap plain	Each	8.000	6790.000		54,320.00	
12	Supplying all materials, labour T&P and fixing wash basins of with hole for pillar taps with cast iron or M.S.brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore, fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste, etc all complete as per specification and direction of the Engineer-In-Charge.					-	
		Each	1.000	10185.406		10,185.41	
13	Countersunk Wash Basin					-	
	Supplying all materials, labour T&P and fixing counter sunk Wash Basin Size - 545mmx545x180mm, Cat.No. FLS-WHT-29601 with all fittings as per direction of the engineer-in -charge.	Each	4.000	8071.554		32,286.22	
14	Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm thick A.C.sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of the Engineer-in-charge.					-	
	750mmx600mm size B.E.mirror	Sqm	3.307	791.19		2,616.70	
15	Supplying all materials, labour, T&P and fixing standard size glass-shelf Glass-Shelf with Chromium Plated brass brackets and guard rails complete, fixed to wooden plugs with Chromium Plated brass screws					-	
	glass shelf 600mm long	Each	3.000	1,900.51		5,701.52	
16	Supplying all materials,labour, T&P and fixing standard sized CP towel ra-il 24" of . complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer-In-Charge.					-	
	25mmx600mm long CP towel rail	Each	4.000	1,811.65		7,246.62	
17	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated brass towel ring complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge	Each	4.000	827.65		3,310.61	
18	Supplying all materials, labour, T&P and fixing standard sized Chromium Plated soap case of . complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws as per specification and direction of the Engineer in charge					-	
	CP soap holder	Each	4.000	754.96		3,019.86	
19	Supplying all materials, labour, T&P and fixing standard sized Robe Hook of . complete with all as per specification and direction of the Engineer in charge.	Nos	4.000	1,022.59		4,090.35	
20	Providing and fixing Salem Stainless steel A ISI (18/8) kitchen sink as per IS : 13983 Kitchen Sink Double Bowl with Round Waste Coupling	Nos	4.000	4,023.80		16,095.20	
21	Supplying all materials, labour, T&P and fixing 100 mm dia wall mounted over head shower & Shower arm . including cutting the wall and making good the damages, including cost of all materials complete as per PH specification and direction of Engineer-in-charge. 100 mm dia CP overhead shower with Arm	Nos	5.000	2816.660		14,083.30	
22	Supplying all materials, labour, T&P and fixing standard sized 15mm dia Single lever Concealed Deusch mixer with provision for connection to overhead shower only of . of approved make etc complete including cutting the wall and making good the damages, including cost of all materials complete as per PH specification complete as per direction of Engineer-in-charge. Concealed stop cock	Each	5.000	3019.856		15,099.28	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
23	Fixing Rotational moulded Poly Propylene double layer cylindrical vertical water storage tanks conforming to IS 12701-1996 including cutting holes through the tank and fixing mild steel tubes and fitting and providing extra sockets and jam nuts, fixing ball valve etc.including hosting upto a height of 5 mtr above ground level and placing the tank to the required postion etc all complete as per specification and direction of the Er-in-charge.					-	
	6000 ltr capacity Double layer cylindrical vertical water storage tanks	Each	1.000	92,582.80		92,582.80	
	EXTERNAL P.H. & SANITARY WORK. :-					-	
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.					-	
	250mmx250mm with RCC cover	Each	4.000	1,681.38		6,725.53	
2	Supplying all materials, labour, T & P and constructing Inspection chamber of the following inside size with CC (1:3:6) mix using 40mm size h.g. metal on bed, 1st class Fly Ash brickwork in CM (1:6) , moulding and shaping the channel inside and benching with CC (1:2:4) using 12mm size h.g. chips, 12mm thick cement plastering (1:3) finished with punning to inside , cement flush pointing (1:3) to outside , R.C.C. cover slab in (1:2:4) using 12mm size h.g. chips with RCC man hole cover , earth work in excavation in all kinds of soil and refilling the cavity around the chamber including watering ,curing, conveyance of all materials to worksite , payment of royalty , taxes etc. all complete as per aproved drawing , specification and direction of Engineer-in-charge.					-	
	Inside size 760mm x760mm x450mm	Each	4.000	10,581.41		42,325.66	
3	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized PVC pipes conforming to IS: 4985/2000 of the following outside dia for class 3(0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer-in-charge.					-	
a)	110mm dia u-pvc pipe alround concrete	mtr	20.000	1,260.59		25,211.88	
b)	160mm dia u-pvc pipe alround concrete	mtr	20.000	2,042.11		40,842.16	
4	Supplying all materials, labour, T&P and constructing Man hole chamber of the following size with cement concrete (1:3:6) using 40 mm size HG metal on bed , 1st class Fly Ash Brick work in CM (1:6) moulding and shaping the channel inside and benching with CC (1:2:4) mix using 12 mm size H.G chips, 12 mm thick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside ,RCC cover slab in (1:2:4) mix using 12 mm size H.G chips with RCC man hole cover , earth work in all kinds of soil and refilling the cavity around the camber including watering, curing, conveyance of all materials to worksite payment of royalty, taxes etc. all completed as per approved drawing, specification and direction of Engineer-in-charge.					-	
a)	Inside size 900mmx900mmx900mm	each	2.000	20,040.88		40,081.77	
b)	addl depth of 0.30m upto 4.50m depth	each	2.000	3,259.99		6,519.97	
5	Supplying all materials, labour, T&P and constructing soakway pit of the following size with precast RCC rings joined loose, gravel backing in the rear of well steining, precast RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including cutting hole in the rings for inlet pipe,earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer-In-charge.					-	
a)	RCC rings soakway pit 1.22m dia x 2.0m deep	each	1.000	24,017.48		24,017.48	
6	Supplying all materials, labour, T&P and constructing soakway pit of the following size with dry brick walling from bottom upto invert of inlet pipe and 1st class K.B brickwork in cement mortar (1:6) for the remaining height at top, cement concrete (1:4:8) using 40mm size hg chips on bed, 12mm thick cement plaster (1:4) inside and outside over masonry brickwork, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge					-	
	Brick masonry soakway pit 1.20m dia x 2.00m deep	each	1.000	21740.438		21,740.44	
	SEPTIC TANK. (100 USER)					-	
1	Earthwork in excavation in all types of soil for site leveling, foundation, pits, trenches and other civil works up to and including 1.5 metre lift and stacking the soil upto a lead of 100 metre and including dewatering, removing slush, shoring and strutting (as required), complete as per specification and as directed by the Engineer-In-Charge.	Cum	52.772	359.782		18,986.24	
2	Filling at all depth with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 15 cm in depth : consolidating each deposited layer by ramming and watering complete (lead upto 100m) as directed by the Engineer-In-charge	Cum	35.357	197.9160979		6,997.70	
3	Supplying of filling sand in foundation and over areas including watering, ramming, consolidating and dressing, labours, tools, taxes etc. all complete as per the specification and direction of E.I.C.	Cum	4.691	682.217		3,200.14	
4.00	Providing and laying plain cement concrete 1:3:6 (1 cement:3 sand: 6 stone aggregate 40mm nominal size) as levelling course in foundation and plinth etc. including tempering, curing, shuttering etc. complete all depth and height.	Cum	2.345	6182.3976		14,500.20	
5.00	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12m size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	Cum	3.9	8,658.77		33,959.69	
6.00	Providing, lifting, hoisting and laying Reinforced cement concrete of M-250 grade as per approved designs and drawings having a minimum compressive strength (in work test) 250 Kg. / Square cm. in 15 cm. cubes at 28 days after mixing and test conducted in accordance with I.S. 516 using 12 mm. to 20 mm. size black hard crushed broken granite stone chips and screened and washed sharp sand for mortar of approved quality from approved quarry, washed and cleaned (20mm. size chips not to exceeds 25 %) to be mixed in concrete mixture with Portland slag cement (PSC) including hoisting, lowering, laying and compaction concrete by using vibrators, watering and curing for 28 days, centering and shuttering then after dismantling and removing debris from the work site and finishing the exposed surface smooth providing grooves or beads wherever necessary including cost, conveyance, loading, unloading, royalties and taxes of all materials and cost of all labours, sundries, T & P required of the work etc. complete in all respect as directed by the Engineer-in-Charge. But excluding cost and conveyance of M.S. rods or Tor steel and binding wires and labour charges for straightening, cutting, bending etc. of M.S. rods or tor steel tying the grills and placing in proper position.					-	
	a) Base	Cum	3.9	7,499.37		29,427.53	
	b) Wall/Beam					-	
	Septic tank	Cum	8.6	18,429.61		1,57,983.22	
	c) Slab	Cum	2.8	16,051.93		44,760.72	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
7.00	Supplying, straightening, cutting, bending, placing in position and binding reinforcement steel work in RCC/reinforced brick works as per drawing and specification including preparation of respective bar bending schedule and binding (Binding wire to be used as per the IS code) etc. all complete as per direction of Engineer-In-Charge.Cold Twisted bars, Thermo-Mechanically-treated bars.	Qntl	15.3	10,744.10		1,64,220.90	
	Fly Ash bricks Masinary (1:6) (in F & P).					-	
8.00	First class Fly Ash Brick masonry using F.A. bricks of size 25 cm. x 12 cm. x 8 cm. having crushing strength not less than 75 kg. Per. Sqr. Cm. in cement mortar of mix(1:6) with ordinary Portland slag cement(PSC) and screened & washed sand for mortar after immersing the bricks for 6 (Six) hours in water before use in Foundation & Plinth including splays cutting, circular moulding, corbelling, chamfering and similar such type of works, watering and curing etc. including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, scaffolding, sundries, T&P required for the works etc. complete in all respect as directed by the Engineer-in-Charge.	Cum	1.2	6,600.49		7,937.09	
	12 mm Plastering.					-	
9.00	12mm cement plaster on internal smooth side of RCC/brick surfaces with cement mortar of mix 1:4 (1 cement : 4 fine sand) including neat cement punning & necessary scaffolding, curing etc. all complete at all floors and all heights.	Sqm	84.0	248.24		20,859.52	
	16 mm Plastering.					-	
10.00	Providing 16mm. thick cement plaster in all floors at all height with cement mortar of mix (1:6) with OPC 53 grade cement finished smooth to inside smooth surface of brick masonry walls after racking out the joints including watering and curing, rounding of corners etc. complete with cost, conveyance, loading and unloading, royalties and taxes of all materials and cost of all labours, sundries, T&P and scaffolding required for the work etc. complete in all respect as desired by the Engineer in charge.	Sqm	8.0	322.30		2,564.18	
11.00	Supplying all materials, labour, T&P and providing , fitting & fixing 100mm x100mm x100 mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.	Each	2.0	459.26		918.51	
12.00	Supplying all materials ,labour, T&P and making MS STEP IRON IN 20MM diameter MS steel bars & fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	5.0	317.66		1,588.28	
	ELECTRICAL:-						
1.00	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked with 20 mm dia HMS FRLS PVC conduit ISI marked 6A modular type (flame retardant type) switch ISI marked and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (flame retardant type) of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. . All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials..Each lightpoint should have provision for ceiling rose and angle holder point. In all the rooms there shall be two types of switchboard- one for raw and the other one for emergency. The inverter switchboard shall include atleast one fan, one light and one 6A emergency socket.						
a)	GROUP-A	Nos	24	726.88		17,445.12	
a-1)	GROUP-B	Nos	24	1,078.52		25,884.48	
B	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)((flame retradant type)) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. (Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	16	231.28		3,700.48	
c)	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((flame retradant type)) with suitable size modular box & cover(flame retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 2 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	16	650.18		10,402.88	
d)	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((flame retradant type)) with suitable size modular box & cover(flame retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.(For equipement power)All the switches & sockets should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	16	810.66		12,970.56	
2.a)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (2X1.5+1X1.5)	Mtr	160	187.62		30,019.20	
b)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit. (2X2.5+1X1.5)	Mtr	180	204.14		36,745.20	
c)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit (2X4+1X1.5)	Mtr	160.0	225.38		36,060.80	
d)	Recessed wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty conduit . (2X6+1X2.5)	Mtr	100	261.96		26,196.00	

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
4	Supplying and installation of AC Point having 16-20A DP MCB, C series with enclosure, of suitable size as required as per direction of Engg.-in-Charge .All the Components should be warrantied for a replacement period of 1 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	84	2,655.00		2,23,020.00	
5	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover.Make- Havells/Anchor as required as per direction of Engg.-in-Charge.All the Components should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	4	252.52		1,010.08	
6	S/F of Bakelite angle holder/batten holder of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge .All the Components should be warrantied for a replacement period of 2 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	each	24	89.68		2,152.32	
7	S/F of 5 step type Modular electronic Fan Regulator ISI Marked with all connection complete in all respect as per direction of Engineer in charge	Each	12	441.32		5,295.84	
8	Sub-Head II (Light fitting Fixture & Fan)						
1	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & conntection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 2 years.	Nos	8	3,693.40		29,547.20	
3	Supplying, installation, testing and commssioning of 1200 mm sweep Copper wound BLDC ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC Insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,Replacement Warranty will be 4 years.	Nos	12	4,394.32		52,731.84	
4	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	24	1,109.20		26,620.80	
7	SITC of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 2 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years .	Nos	24	859.04		20,616.96	
8	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. The luminaire should be Replacement Warranty will be 2 years	Nos	4	514.48		2,057.92	
c)	BDBS,DB,AC DB,FLOOR PANELS,MCBS						
1	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 3 years						
b)	Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) Warranty on DB is 3 years	Nos	6	3,375.98		20,255.88	
3	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series,10KA breaking capacity, single poles MCB of the existing MCB DB complete with connections as per direction of Engg.-in-Charge. .Warranty on MCB is 1 years.	Nos	92	378.78		34,847.76	
5	Supplying and fixing 63Amps 2P 240 volts RCCB 30 mA in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.The RCCB should be Replacement Warrantv will be 1 year	Nos	6	3,465.66		20,793.96	
7	Supplying and fixing 63Amps rating,C series,10KA breaking capacity, 2P 240 volts MCB in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge..The MCB should be Replacement Warranty will be 1 years.	Nos	4	3,027.88		12,111.52	
d)	(Earthing) INSTALLATION						
2	Supplying,installation,testing & commissioning of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonary enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge	Nos	4	7,670.00		30,680.00	
4	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	50	177.00		8,850.00	
e)	CABLING AND END TERMINATION MAIN AREA						
1	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials.						
	3 core x 16 sq mm	Mtr	100	359.90		35,990.00	
	3.5 core x 50 sq mm	Mtr	30	802.40		24,072.00	
2	LAYING OF CABLE					-	
2.7	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct direct in ground in the EXISTING PIPE etc as required as per direction of Enaa.-in -charae.	Mtr	120	74.34		8,920.80	
3	Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.					-	
	3 core x16sq mm	Nos	8	273.76		2,190.08	
f)	PANELS						
	MAIN CONTROL PANEL AT GF						

Sl. No.	Description of items	Unit	Quantity	Rate (₹)		Amount (₹)	
				SOR	Non-SOR	SOR	Non-SOR
1	S/I/T&Commissioning of CPRI tested LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint followed by 9 tank acid treatment is designed as G.A drawing as per direction of Engg.-in-Charge.Warrentee period of replacement of panel & accessories must be 1 years & complete test certificate must be submitted along with panel board including component list. 60X10MM Separate Aluminium Earth bus bar should be installed. All the Major feeders shall have ON/OFF/TRIP indication.	Set	1	52,587.88		52,587.88	
3.1	20 MM	Mtr	80	148.68		11,894.40	
					TOTAL	1,20,38,726.67	14,67,984.67
				GRAND TOTAL (FAMILY QUARTERS)		1,35,06,711.34	